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Result
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Match
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49
August 30, 2004, 10:39:14; Search time 13.4088 Seconds (without alignments)
189.646 Million cell updates/sec
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ABG79075
ABR84373
ADC17701
AAY69962
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Compugen Ltd.
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Aab46930 Human cyc
Aag68088 Antitumou
Abg79075 Human Cyp
Abr84373 Human Cyp
Adc17701 Cyclophil
Aay69962 Human cyc
Aab46946 Human cyc
Aay69969 Human cyc
Aay69959 Human cyc
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Aaw58475 Human Typ
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d83072 121P1 d84184 121P1 d83046 121P1 d83046 121P1 d83215 121P1 d84124 121P1 d841169 121P1 d841188 121P1 d842989 121P1 d83263 121P1 d832850 121P1 d832850 121P1 d832850 121P1 d831263 121P1 d83127 121P1 d83127 121P1 d831286 121P1 d831287 121P1 d831287 121P1 d831287 121P1	Մ	44	43 3	42	41	40	39	38 8	37	36	35	34	ω ω	32	31	30	29	28	27	26
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ALIGNMENTS

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RESULT 1
AAY69921
ID AAY6
XX AAY6
AC CYC1
KW HLA
AC CYC1
AC CYC1
AC CYC1
AC AAY6
AC AAY6
AC CYC1
AC AAY6
AC AAY6
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AC AAY6
AC CYC1
AC CYC1
AC AAY6
AC CYC1
AC CYC
  Query Match
Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                This sequence represents a cyclophilin B peptide of the invention. peptides are tumour antigen peptides derived from cyclophilin B, the recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The peptides are used for the treatment and diagnosis of tumours
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                                                                                                                                       Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Tumor antigen peptides derived from diagnosis of tumors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                Claim 4; Page 49; 64pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-116932/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Itoh K, Gomi S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SUMU ) SUMITOMO PHARM CO LTD (ITOH/) ITOH K.
100.0%; ilarity 100.0%; Conservative 0
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        Score 49; DB 3; : Pred. No. 1.4e+06; ; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cyclophilin
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RESULT 3
AAG68088
ID AAG6
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AC AAG6
XX
AC AAG6
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Matches 9
                                                                                                                                                                                                                                                                                                expressing the antigenic proteins or peptides, in the manufacture of an agent for induction of antigen-specific T cells. The products of the invention have virucide and cytostatic activity and can be used for gene therapy or as inducers of antigen-specific T cells. The action of interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic T cell (CTL) by administering an antigenic peptide in an incomplete Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or DNA encoding IFNs) are useful in the manufacture of a medicament for inducing antigen-specific T cells in an individual who has been administered with AP (or DNA encoding AP) or vice versa. The medicament is useful for the treatment or prophylaxis of a tumor or a viral
   17-DEC-2001
                                AAG68088;
                                                                                                                                                                                                                                                            Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention describes the novel use of interferons (IFNs) or DNAs capable of expressing the interferons and/or antigenic proteins (AP), antigenic peptides derived from the proteins or DNAs capable of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tumor antigenic peptide; interferon; IFN; antigen-specific T cell; virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell; viral infectious disease; cyclophilin B; human.
                                                          AAG68088 standard; peptide; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 15; 25pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Use of antigenic proteins, peptides, interferon or their encoding the manufacture of an agent for the induction of antigen-specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-193144/20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Takasu H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04-MAY-2001
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                                                                                                                                                                                                 Similarity 9; Conserv
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                                                                                                                                                                                                                                                                                          disease
                                                                                                                                                                                                 100.0%; ilarity 100.0%; Conservative 0
   (first entry)
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                                                                                                                                                                                                 Score 49; DB 4;
Pred. No. 1.4e+06;
); Mismatches 0;
                                                                                                                                                                                                                            Length 9;
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RESULT 4
ABG79075
ID ABG7
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XX
AC ABG7
AC ABG7
XX
DT 15-N
XX
DE Huma
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Cell
KW Cell
KW Hodg
KW Hodg
KW Hodg
KW Ovar
KW Ovar
KW Ovar
KW Cytc
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Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes peptides recognising cancer cells with tumour specific cytotoxic T lymphocytes (CTL). The peptides recognising cancer cells with tumour specific CTLs are selected from: (1) peptides of sequences (AAG68066 to AAG68069); (2) peptides containing the above mentioned sequences; (3) peptides having 70 % or more of homogeneity with the above mentioned sequences; and (4) peptides with one or more deleted, substituted, added or inserted amino acid(s) of the above mentioned sequences, particularly those having recognising property due to HLA-A2402 binding CTL, especially having at least 5 amino acids, used for medicine, particularly anticancer agents, derived from antitumour antigenic peptides of lck, src family, SART-1, SART-3 or cyclophilin B genes. The antitumour peptides have cytostatic activities. The peptides are used for the treatment of cancer. The peptides cause activation of CTL in cancer patients. The present sequence represents a peptide from
                                                                         kidney cancer; adenocarcinoma; breast cancer; prostate cancer; ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell; tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
                                                                                                                                                                                                                                                            15-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 9 AA;
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                                                            cytostatic; human.
                                                                                                                                     lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; leukaemia; Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer;
                                                                                                                                                                          Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen;
                                                                                                                                                                                                                  Human Cyp-B class I HLA widely expressed antigen peptide #1
                                                                                                                                                                                                                                                                                                                                   ABG79075 standard; peptide; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 8; Page 2; 14pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New peptides for recognizing cancer cells with tumor specific cytotoxic lymphocytes and for treating cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-610076/70.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 49; DB 4; 100.0%; Pred. No. 1.4e+06; tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                         leukaemia
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WO200264057-A2

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RESULT 5
ABR84373
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Matches 9
                                                                      Antigen specific T-cell; detection; diagnosis; cancer specific T-cell; cancer; tumour; cervical cancer; prostate cancer; cellular immunity; immune therapy; cytostatic; immunostimulant; vaccine; antigenic peptide; human; human leukocyte antigen; HLA-A24 epitope.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel composition for treating a disease in an animal, comprises an immune effector cell and cell penetrating peptide associated with an
                                                                                                                                                                                                      06-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 17; 61pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antigen
                                   Homo sapiens
                                                                                                                                                                Human CypB HLA-A24 epitope,
                                                                                                                                                                                                                                                                            ABR84373 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-FEB-2002; 2002WO-US005212.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-FEB-2001; 2001US-0268687P
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                                                                                                                                                                                                                                                                                                                                                                                                          KFHRVIKDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                     (first entry)
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                                                                                                                                                                 SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 49; DB 5; ]
Pred. No. 1.4e+06;
; Mismatches 0;
                                                                                                                                                                   NO:23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 9;
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RESULT 6
ADC17701
XX
AC ADC1
XX
AC ADC1
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Cycl
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KW cyto
KW cycl
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W020
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FP 28-A
XX
PF 28-A
XX
PR 29-A
XX
DR WPI;
XX
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Best Local S
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a method for the detection of antigen specific -cells in a blood sample involving the use of a plurality of antigenic peptides. The method comprises sampling of peripheral blood monocytes; stimulation of the collected peripheral blood monocytes with antigens without direct use of antigen presenting cells; and detection of T-cells specific to the antigen in the stimulated monocytes. The method is particularly used for the detection of cancer as it can be used in semi-quantitative determination of cancer specific T-cells. It can also be used for cancer vaccine therapy for patients with cervical or prostate cancer. The method can additionally be used to monitor of cellular immunity and cancer immune therapy by detection of specific T-cell frequencies. Sequences ABR84367-ABR84380 represent HLA-A24 (human leukocyte antigen) peptides of human origin used in an example from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A detection method of antigen specific T-cells, comprises the use of plural antigenic peptides, useful in semi-quantitative determination cancer specific T-cell frequencies and for monitoring cellular immuni
                                                                                                                                                                                                                                                  allergy; epitope; cyclophilin B.
                                                                                                                                                                                                                                                                  cytostatic; antiallergic; vaccine; allergic allergy; epitope; cancer; immunoglobulin E a
                                                                                                                                                                                                                                                                                                                                           18-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 9 AA;
                                                                                                     29-AUG-2001; 2001JP-00260046
                                                                                                                              28-AUG-2002; 2002WO-JP008641
                                                                                                                                                               13-MAR-2003
                                                                                                                                                                                           WO2003020306-A1
                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                              Cyclophilin B protein amino acids 84-92.
                                                                                                                                                                                                                                                                                                                                                                                                      ADC17701 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-NOV-2000; 2000JP-00345094.
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KFHRVIKDF 9
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                                                                                                                                                                                                                                                                                                                                                                                                      peptide;
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Pred. No. 1.4e+06;
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                                                                                                                                                                                                                                                                    c reaction
antibody;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
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                                                                                                                                                                                                                                                                    suppressor; a desensitizati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                  antigen;
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WPI; 2003-300831/29

Yamada

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RESULT 7
AAY69962
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to allergic reaction suppressors, comprising a peptide which originates from the same antigenic substance as the antigenic substance inducing the (peptide-originated) allergic reaction, and containing an epitope different from the epitope participating in the induction of the allergic reaction and yet dos not induce the allergic reaction. The desensitizers or allergic reaction suppressors are useful for treating and preventing type I allergic diseases and in cancer vaccines for preventing or treating cancer. The allergic reaction suppressors are also useful for suppressing an allergic reaction or reducing immunoglobulin E antibody production, and for desensitization tantigens. This sequence represents a peptide used in the invention and corresponds to amino acids 84-92 of the cyclophilin B protein.
                       This sequence represents a cyclophilin B peptide of the peptides are tumour antigen peptides derived from cyclop recognise cytotoxic T-cells (CTL) which bind to the HLA peptides are used for the treatment and diagnosis of tun
                                                                                           Claim 10; Page 60; 64pp; Japanese
                                                                                                                      Tumor antigen peptides derived from cyclophilin B for treatment and diagnosis of tumors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Desensitizers or allergic reaction suppressors containing peptides originating from the same antigenic substances as reaction-inducing substances, useful for preventing or treating type I allergic diseases and in cancer vaccines.
                                                                                                                                                                WPI; 2000-116932/10
                                                                                                                                                                                          Itoh K,
                                                                                                                                                                                                                                                            25-JUN-1998;
                                                                                                                                                                                                                                                                                       24-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                Cyclophilin B; human; to HLA antigen; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-APR-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAY69962 standard;
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                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
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                                                                                                                                                                                                                                 (SUMU )
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                                                                                                                                                                                                                   SUMITOMO PHARM ITOH K.
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9; Conserv
                                                                                                                                                                                           Gomi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         peptide;
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                                                                                                                                                                                                                                                                                                                                                                                                                tumour
                                                                                                                                                                                                                                   CO LID
                                                                                                                                                                                                                                                                                                                                                                                                   tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                        fragment
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                                                                                                                                                                                                                                                                                                                                                                                                antigen peptide; cytotoxic ir; therapy.
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Pred. No. 1.
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RESULT 8
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Matches 8
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Best Local S
Matches 8
                                                                                                                                                       This invention describes the novel use of interferons (IFNs) or DNAs capable of expressing the interferons and/or antigenic proteins (AP), antigenic peptides derived from the proteins or DNAs capable of expressing the antigenic proteins or peptides, in the manufacture of an agent for induction of antigen-specific T cells. The products of the invention have virucide and cytostatic activity and can be used for gene therapy or as inducers of antigen-specific T cells. The action of interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic T cell (CTL) by administering an antigenic peptide in an incomplete Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or DNA encoding IFNs) are useful in the manufacture of a medicament for inducing antigen-specific T cells in an individual who has been administered with AP (or DNA encoding AP) or vice versa. The medicament is seeful for the treatment or prophylaxis of a tumor or a viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tumor antigenic peptide; interferon; IFN; antigen-specific virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T viral infectious disease; cyclophilin B; human.
                                                                                                               Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                            Use of antigenic proteins, peptides, interferon or their encoding the manufacture of an agent for the induction of antigen-specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-JUL-2000;
                                                                                                                                               infectious disease
                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 19; 25pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-193144/20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human cyclophilin B derived tumor antigenic peptide SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB46946;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (SUMU ) SUMITOMO PHARM CO LTD.
                                                     Similarity
8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity 8; Conserv
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                          KFHRVIKDF
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                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000EP-00306263.
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                                                                    93.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Yamaoka T;
                                                     Score 46; DB 4;
Pred. No. 1.4e+06;
1; Mismatches 0
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                                                        Gaps
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AAY69960
ID AAY69960;
XX
AAY69960;
XX
T1-APR-2000 (first entry)
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fr
XX
Cyclophilin B; human; tumour a
KW HLA antigen; diagnosis; tumour
XX
Homo sapiens.

FT Misc-difference 2
FT Misc-difference 9
PF 24-JUN-1999; 99WO-JP003360.
XX
CSUMU ) SUMITOMO PHARM CO LTD.
XX
PA (SUMU ) SUMITOMO PHARM CO LTD.
XX
PA (ITOH/) ITOH K.
XX
PA (ITOH/) ITOH K.
XX
PA (ITOH/) TOH K.
XX
PA (ITOH/) Page 59; 64pp; Japar
XX
PS Claim 10; Page 59; 64pp; Japar
XX
CC This sequence represents a cyc
peptides are tumour antigen pc
CC peptides are used for the tree
XX
SQ Sequence 9 AA;
RESULT 10
AAY69959
ID AAY69
XX
AAY69
AC AAY69
XX
DT 11-AP
XX
DE Human
XX
Cyclc
KW Cyclc
KW HLA a
XX
OS Homo
XX
PN WO996
XX
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                          This sequence represents a cyclophilin B peptide of the invention. The peptides are tumour antigen peptides derived from cyclophilin B, that recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The peptides are used for the treatment and diagnosis of tumours
                                                             Cyclophilin B; human; tumour annayem per
HLA antigen; diagnosis; tumour; therapy.
                                                                                                                  Human
                                                                                                                                                                            AAY69959;
                                                                                                                                                                                                       AAY69959 standard;
                                          Homo sapiens
                                                                                                                                               11-APR-2000
                                                                                                                cyclophilin
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                                                                                                                                                                                                                                                                                                                                     Similarity 7; Conserva
                                                                                                                                                                                                                                                                                 KXHRVIKD
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                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                                                                               (first
                                                                                      human; tumour antigen peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   human; tumour antigen peptide;
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                                                                                                                                                                                                       peptide;
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                                                                                                                  fragment
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Pred. No. 1.4e+06;
D; Mismatches 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cyclophilin B
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                                                                                                                  #39.
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                                                                                    cytotoxic
                                                                                                                                                                                                                                                                                                                                                                  Length 9;
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                                                                                      T-cell;
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                                                                                    CTL;
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RESULT 11
AAY69924
ID AAY69
XX AAY69
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AAY692
AC AAY69
AC CUMU
AA (SUMU
AA (SUMU
AA (ITOH
AX WPI)
AX (SUMU
AA (ITOH
AX Tumox
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Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This sequence represents a cyclophilin B peptide of t peptides are tumour antigen peptides derived from cycrecognise cytotoxic T-cells (CTL) which bind to the peptides are used for the treatment and diagnosis of
                                                                                                                                                  Tumor antigen peptides derived from diagnosis of tumors.
                                                                                                                                                                                                                                                                                                                                                                           25-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cyclophilin I HLA antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAY69924;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tumor antigen peptides derived from diagnosis of tumors.
                                                                                                      Claim 4; Page 50; 64pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                       24-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human cyclophilin B peptide fragment
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAY69924
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; Page 61; 64pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Itoh K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-JUN-1998;
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                                                                                                                                                                                                                                                                Itoh K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9967288-A1
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                                                                                                                                                                                                                                                                                                         (SUMU ) SUMITOMO PHARM CO LTD (ITOH/) ITOH K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sapiens.
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                                                                                                                                                                                                                                                                Gomi S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      standard; peptide; 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FHRVIPSF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  B; human; tumour antigen peptide; diagnosis; tumour; therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first
                                                                                                                                                                                                                                                                                                                                                                           98JP-00178449.
                                                                                                                                                                                                                                                                                                                                                                                                                         99WO-JP003360.
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75.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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                                                                                                                                                                        cyclophilin
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1.4e+06;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of the invention. The cyclophilin B, that the HLA antigen. The s of tumours
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for treatment and
                                                                                                                                                                          for
                                                                                                                                                                          treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T-cell;
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This sequence represents a cyclophilin B peptide of the invention. peptides are tumour antigen peptides derived from cyclophilin B, the recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The peptides are used for the treatment and diagnosis of tumours

SX XX

Sequence

11

ΑA,

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RESULT 13
AAP93365
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AAR48203
 DE X D D X A X I B
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Best Local S
Matches 5
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Best Local S
Matches 6
Amino acids encoded by oligonucleotide linker used to construct E. coli human synovial phospholipase type A2 (sPLA2) expression vector p86-1A.
                                 25-MAR-2003
27-JUN-1980
                                                                                                                                                                                                                                                             A synthetic sequence coding for human pre-phospholipase A2 using codons preferred for expression in insect cells is claimed. The synthetic DNA fragment is used to produce a recombinant Baculovirus for infection of insect cells. Human PLA2 having the mature N-terminal sequence of AAR48203 can be produced by the transformants and readily purified
                                                                                                                                                                                                                                                                                                                                                      DNA coding phospholipase A2 frequency of using codon in
                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1993-277477/35.
N-PSDB; AAQ48537, AAQ48538.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human PLA2; insect cell; Baculovirus; preferred codon usage; codon bias; increased recombinant protein expression; ds.
                                                                   AAP93365;
                                                                                        AAP93365
                                                                                                                                                                                                                                         Sequence 11
                                                                                                                                                                                                                                                                                                                                 Claim 2 and 3; Page 2; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-JAN-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-AUG-1993.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JP05192167-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                20-JAN-1992;
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                                                                                      standard; protein;
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                                                                                                                                                                      FHRVIK 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KFHRVI 11
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                                                                                                                                                                                                                                         AA;
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                                                                                                                                                                                              Conservative
                                 (revised)
(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein;
                                                                                                                                                                                                      59.2%;
83.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mature N-terminus.
                                                                                                                                                                                                                                                                                                                                                        (PLA2) and prepn. insect cell.
                                                                                                                                                                                            Score 29; DB Pred. No. 52; 1; Mismatches
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    designed to match

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RESULT 14
AAR69271
ID AAR69
XX
AC AAR69
XX
DT 17-JU
XX
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Best Local S
Matches 5
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06-JUL-1988;
16-AUG-1988;
                                                                                                                                                                                                                                                                                                            and the 370bp sPLA2 fragment were ligated into expression vector pHNF86 which consists of a pBR322 backbone, the E.coli Trp promoter, an RBS, sequences encoding the amino terminal portion of the E.coli beta-galactosidase gene followed by six Thr residues, EcoRI and HindIII sites, and two strong E.coli transcription termination signals. This expression construct was called p86-1A. It was used to transform E.coli strain W3110 (ATCC 27325) to produce sPLA2 as a fusion protein with beta-galactosidase. (Updated on 25-MAR-2003 to correct PA field.) (Updated on 25-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                           It is encoded by the 'N-terminal hookup', having vector encoded residues to its N- terminus and RASF residues to its C-terminus. A single base change at the C-terminus of the sPLA2 gene created a HindIII site. Digestion of this mutagenised clone with BclI and HindIII yielded a 370bp fragment containing the entire sPLA2 coding region with the exception of the first nine amino acid residues of the mature protein. These nine residues, along with a cleavable fusion site (Trp) and an EcoRI site were replaced with the oligonucleotide linker which encodes this sequence (AAN91261) and another oligonucleotide linker (AAN91262). The two linkers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Peptide
Protein
               17-JUN-1995
                                                                                                                                                                                                                                                                Sequence 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mammalian synovial phospholipase A2 - screening of inflammation inhibitors,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1989-085394/11.
N-PSDB; AAN91261.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human synovial phospholipase A2; E. coli strain W3110 (ATTC 27325); expression vector p86-1A; oligonucleotide linker.
                                           AAR69271;
                                                                        AAR69271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Fig 8; 70pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          adjuvant
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UNIV OF TORONTO INNOVAT
                                                                                                                                                                                                       Similarity 83. 5; Conservative
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                                                                         standard;
                                                                                                                                                FHRMIK 11
                                                                                                                                                                                                                                                                 AA;
               (first entry
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88US-00215726.
88US-00231865.
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1..3
4...12
                                                                      peptide;
                                                                                                                                                                                                                      83.3%;
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                                                                                                                                                                                                        Score 29; DB Pred. No. 57; Nismatches
                                                                         13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       used in food processing, design and as an anticancer drug or vaccine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vadas
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RESULT 15
AAW58475
ID AAW58
XX AAW58
AC AAW58
AC AAW58
AC Human
CX Human
CX Human
CX Human
CX Inhib
CX Inhib
CX Synth
OS Synth
OS Synth
OS Homo
CX WO981
CX WO981
CX 29-SE
CX 27-SE
PR 27-SE
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The sequence is the only specific example of a generically claimed group of peptides which inhibit phospholipase A2 associated with local inflammation, or which inhibit binding thereof with heparin, and which therefore are expected to be useful as antiinflammatory agents. The generic peptides are of formula: A1-M1-M2-A2-M3- B1-B2-M4-M5-B3- M6-A3-X, where A1, A2, A3= Ser, Thr, Tr, Asn, Gln, Asp, Glu, Arg or Lys; B1, B2, B3 = His, Lys or Arg; M1, M2, M3, M4, M5, M6 = Leu, Val, Ile, Phe, Tyr, Trp, Met, Gly or Ala; and X = a peptide composed of 1-3 amino acid residues. Pref M1, M2, M4 and M5 = Leu, Ile, Val or Met; M3 = Phe, Tyr or Trp; A1 and A2 = Asn, Ser or Thr; and X = a peptide of one or two amino acids selected from Cys, Thr, Ser, Asp, Glu, A1a and Gly; one or more amino acid residues may be substituted, deleted and/or inserted; and when
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 13 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; Page 4; Spp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      agent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New peptide which inhibits phospholipase - useful as antiinflammatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1994-338301/42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12-MAR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antiinflammatory; phospholipase A2; PLA2; inhibitor; heparin
27-SEP-1996;
27-SEP-1996;
                                                                                                                                              Synthetic
                                                                                                                                                                                     Human; PLA2; phospholipase A2; binding peptide; three-dimensional; inhibitor; synovial fluid; septic shock; rheumatoid arthritis;
                                                                                                                                                                                                                               Human Type II PLA2 peptide residues 1-14.
                                                                                                                                                                                                                                                                                         AAW58475;
                                                                                                                                                                                                                                                                                                                    AAW58475 standard; peptide; 14
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                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                             17-AUG-1998
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                                          29-SEP-1997;
                                                                       02-APR-1998
                                                                                                 WO9813376-A1
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5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                       FHRVIK 7
                                                                                                                                                                                                                                                                                                                                                                                             FHRMIK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                        disease.
                                                                                                                                                                                                                                                            (first entry)
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96AU-00002660.
96AU-00002661.
                                          97WO-AU000648.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inhibiting peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 59.2%;
83.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 29; DB
Pred. No. 62;
1; Mismatches
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RESULT 16
ADD84475
ADD84475
AC ADD84
XX ADD84
XX 121P1
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention. The present invention describes non-peptide structures (i.e. a structure not composed exclusively of natural amino acids connected by amide bonds) having a conformation and polarity such that they bind to (i) at least 1 amino acid (aa) in the N-terminal helix of PLA2 and/or (preferably and) (ii) at least 1 aa in the 70-77 aa region of PLA2. The non-peptide structure binds to at least 1 (preferably 2) of residues (N1, V3, N4, H6, R7, K10 and L12 in the N-terminal helix of PLA2. The non-peptide structure binds to at least 1 (preferably 2) of residues (PLSYK (see PAW58474) in a conformation that allows it to bind to (1) at least 1 of the specified N-terminal helix aa and (2) at least 1 of aa 70-77. Especially this spatial geometry is defined by the hydrogen-bonding network between backbone residues of FLSYK and aa 1, 3, 4, 7 and 72-75 of PLA2. Non-peptide structures and peptide inhibitors of PLA2 are used to treat septic shock, rheumatoid arthritis and/or other inflammatory diseases. Inhibitors based on D-aa have longer in vivo half-lives than those based on L-aa, but have about the same inhibitory activity
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Matches 5
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                            Challita-Eid PM,
Jakobovits A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present sequence represents a peptide from human type (phospholipase A2) residues 1-14, used in an example of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example; Page 21; 56pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1998-230630/20
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                                                                                                                                                                                                                                 28-FEB-2002; 2002WO-US006242
                                                                                                                                                                                                                                                                                        28-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121P1F1; 121P1F1 modulation; human; chromosome 4q; cytostatic; gene therapy; vaccine; cancer; immune response; immunisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121P1F1 modulating CTL epitope peptide #1029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-JAN-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADD84475 standard; peptide;
                                                                                                                                                                       05-MAR-2001; 2001US-00799250
                                                                                                                                                                                                                                                                                                                                               WO200295009-A2
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                                                                                                                  (AGEN-)
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5; Conserv
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                                                                                                                  INC.
                                                         Hubert
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83.3%;
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                                                         RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Score 29; DB
; Pred. No. 67;
1; Mismatches
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                                                         Raitano AB,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 4
                                                           Hepatitis C virus poly:nucleic acid unique to unidentified sub:type used to develop probes and primers for new sub:types and vaccines to prevent and treat infection.
  The peptides AAR96424-R96524 represent
                                                                                                                                                 Maertens G,
                                                                                                                                                                                                           21-OCT-1994;
28-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                       Hepatitis C virus; subtype; polymerase chain reaction; amplification; PCR; primer; probe; antibody; infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Composition comprising a substance that modulates the status of 121P1F1, useful in diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or lung cancer.
                                                                                                                      WPI; 1996-251460/25.
                                                                                                                                                                                                                                                     23-OCT-1995;
                                                                                                                                                                                                                                                                                    09-MAY-1996.
                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                   Hepatitis C virus type 9 peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAR96521;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR96521 standard; peptide; 10
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                                                                                                                                                                                                                                                                                                                 WO9613590-A2
                                                                                                                                                                             (INNO-) INNOGENETICS
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                             Page
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                                                                                                                                                  Stuyver L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                             68; 150pp; English.
                                                                                                                                                                                                            94EP-00870166.
95EP-00870076.
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67;
novel peptides
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Best Local S
Matches 4
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                                                                                                                                                        Modified 3-hydroxy-3-methylglutaryl-coenzyme A reductase gene, useful for generating transgenic plants having increased isoprenoid production, comprising a modified phosphorylation site.
                                                                                                                                                                                                                                                Halford NG, Hey SJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3-Hydroxy-3-methylglutaryl-CoA reductase; HMG-CoA reductase; phosphorylation; isoprenoid; sterol; transgenic plant; potato pathogen resistance; disease resistance; crop protection.
                                                                                                                                                                                                                     WPI; 2001-308654/32.
                                                                                                                                                                                                                                                                                                                                     27-OCT-2000; 2000WO-GB004141
                                                                                                                                                                                                                                                                                                                                                                   03-MAY-2001.
                                                                                                                                                                                                                                                                                                                                                                                                WO200131043-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                          Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Solanum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Phosphorylation site in potato HMG-CoA reductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB82292;
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                                                                                                                                                                                                                                                                                                         99GB-00025453
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                                                                                                                                                                                                                                                                                                                                                                                                                           /note= "O-phosphorylated"
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Pred. No. 1.2e
3; Mismatches
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1.2e+02;
1;
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The present sequence is that of a phosphorylated region of the 3-hydroxy-3-methylglutaryl-coenzyme A reductase (HMGR) protein of potato. The invention relates to modified HMGR genes useful for generating transgenic plants having increased isoprenoid (especially sterol) production. The modified genes encode modified HMGR proteins, in which a phosphorylation site has been rendered inactive by replacing a Ser, Thr or Tyr residue with Ala or other amino acid residue. This reduces transcriptional regulation. The HMGR genes may be in the form of mutant plant and

Claim 16; Page 18; 23pp; English.

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RESULT 19
AAW92359
XX
AAW92359
AC
AAW92
XX
CYP2B
XX
CYP2B
XX
CYPCC
KW
CYCCC
ANTO
AW92
XX
O2-FE
XX
O6-JU
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O6-JU
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Matches 5
This sequence represents an immunogenic peptide designed to raise antibodies against the cytochrome P450 2B subfamily protein CYP2B1. This peptide is used in a method for producing form-specific and/or inhibitory antibodies against cytochrome P450 proteins, that comprises determining the amino acid sequence of the protein, aligning the desired amino acid sequence with a comparison sequence, using an alignment algorithm, in which the comparison sequence has been analysed by X-ray crystallography or NMR, and where domains of the sequence comprise a substrate
                                                                                                                                                                                                                                               Production of ant that corresponds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
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                                                                                                                                                                                        Claim
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                                                                                                                                                                                     5; 15pp;
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2; Mismatches
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The present invention relates to oligonucleotides (see AAL26793-AAL34659) encoding polymorphic variants of proteins related to amylases, amyloid proteins, angiopoietin, apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes, histones, kinases, colony stimulating factors, complement related proteins, cytochromes, kinesins, cytokines, interferons, interleukins, G-protein coupled receptors and thioesterases. The present sequence is a peptide encoded by one such oligonucleotide. The oligonucleotides and the peptides encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression of the proteins listed above. Disorders that may be prevented, diagnosed and/or treated include multifactorial diseases with a genetic component, such as autoimmune diseases (e.g. rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic neuroprotective; antimicrobial; gene therapy; vaccine; amylase; ca amyloid protein; angiopoietin; apoptosis related protein; cadherin cyclin; polymerase; oncogene; histone; kinase; colony stimulating complement related protein; cytochrome; kinesin; cytokine; interfe interleukin; G-protein coupled receptor; thioesterase; inflammatio multifactorial disease; autoimmune disease; infection; nervous system disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    recognition site, selecting a peptide sequence corresponding to a region of a substrate recognition site (SRS) preparing a peptide having the selected sequence and using the peptide as an immunogen. The antibodies can be used as analytical tools to identify cytochrome P450 proteins which are involved in the metabolism of drugs and physiological substances. They may also be used as therapeutic agents to inhibit specific cytochrome P450 proteins
                                                                                                                                                                                                                                                 Polymorphic nucleic acids encoding oncogenes and histones, useful for autoimmune diseases and infections.
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27-DEC-2000; 2000US-00173419.
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The invention relates to isolated Bacillus anthracis and small pox virus competides, also known as replikins, comprising 7 to 50 amino acids including at least one lysine residue located six to ten residues from a second lysine residue, at least one histidine residue, and at least 6% comparisine residues. The peptides were identified using the 3-point-composition method and based on the replikin sequence isolated from compliant cells malignin peptide which is of non-human origin. Also included are anti-replikin antibodies (or antibody cocktail), a method of stimulating the immune system of a subject to produce antibodies to Bacillus anthracis or small pox comprising administering an effective amount of at least one or more Bacillus anthracis or small pox replikin cand an antisense nucleic acid molecule complementary to a mRNA encoding a Bacillus anthracis polypeptide (e.g. Anthrax Lethal Factor Protein pX01-comprising a replikin sequence, an antisense nucleic acid molecule complementary to a mRNA encoding a Small Pox Virus polypeptide (e.g. Surface Antigen S Precursor Protein comprising a replikin sequence. The peptides are useful for stimulating the immune system of a subject to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure;
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27-MAR-2001;
27-MAR-2001;
09-JUL-2001;
The invention relates to isolated Bacillus anthracis and small pox virus peptides, also known as replikins, comprising 7 to 50 amino acids including at least one lysine residue located six to ten residues from a second lysine residue, at least one histidine residue, and at least 6% lysine residues. The peptides were identified using the 3-point-recognition method and based on the replikin sequence isolated from glioblastoma cells malignin peptide which is of non-human origin. Also included are anti-replikin antibodies (or antibody cocktail), a method of stimulating the immune system of a subject to produce antibodies to Bacillus anthracis or small pox comprising administering an effective amount of at least one or more Bacillus anthracis or small pox replikin and an antisense nucleic acid molecule complementary to a mRNA encoding a Bacillus anthracis polypeptide (e.g. Anthrax Lethal Factor Protein pX01-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   produce antibodies that bind specifically to Anthrax or small pox polypeptides containing a replikin sequence. The peptides are useful for generating antibodies that can be used in the treatment and/or prevention of anthrax or small pox. The peptides are also useful for formulating vaccines for treating anthrax or small pox. The present sequence is a replikin sequence isolated by the 3-point-recognition system and sharing structural similarity with the replikin sequence isolated from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3-point-recognition; vaccine Surface Antigen S Precursor
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                                                                                                                                                                                                                          Disclosure; Page 3; 16pp; English
                                                                                                                                                                                                                                                     Isolated Bacillus anthracis and small pox virus peptides (I), as replikins, useful for formulating vaccines for treating antsmall pox, comprise 7 to 50 amino acids.
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BOGOCH E S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequence identiied
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KFHRVIKD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KOHRELKU
                                                                                                                                                                                                                                                                                                                                                      Bogoch ES
                                                                                                                                                                                                                                                                                                                                                                                                                                ; 98US-00146755.
; 2001US-00817144.
; 2001US-0278761P.
; 2001US-0303396P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          53.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     λ̈́
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 26; DB
Pred. No. 1.4e
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       immunogen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the 3-point recognition method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; DB 5; __

3. 1.4e+06;

2;
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Lethal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antiviral; antibacterial;
Pactor Protein pX01-107;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                         anthrax
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                         also
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ABU5
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Best Local S
Matches 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           comprising a replikin sequence, an antisense nucleic acid molecule complementary to a mRNA encoding a Small Pox Virus polypeptide (e.g. Surface Antigen S Precursor Protein comprising a replikin sequence. The peptides are useful for stimulating the immune system of a subject to produce antibodies that bind specifically to Anthrax or small pox polypeptides containing a replikin sequence. The peptides are useful for generating antibodies that can be used in the treatment and/or prevention of anthrax or small pox. The peptides are also useful for formulating vaccines for treating anthrax or small pox. The present sequence is a replikin sequence isolated by the 3-point-recognition system and sharing structural similarity with the replikin sequence isolated from
                          The invention describes an isolated replikin or recognin peptide (I) comprising 7-50 amino acids including at least one lysine residue located 6 to 10 residues from a second lysine residue, at least one histidine residue and at least 6% lysine residues. The peptides are useful for stimulating the immune system, and for targeting, labelling or destroying replikin-containing organisms. The computer-readable mediums are useful for identifying a protein or peptide containing a replikin or recognin sequence. This is the amino acid sequence of a replikin peptide identified in the invention
                                                                                                                                                                                                                         New replikins or recognin peptides, system, and for targeting, labeling
                                                                                                                                                                              Claim 78; Page 3; 17pp; English.
                                                                                                                                                                                                            organisms.
                                                                                                                                                                                                                                                                      WPI; 2003-182530/18
                                                                                                                                                                                                                                                                                                                                  (BOGO/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Polyomavirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Replikin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Replikin peptide sequence #61.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABU57321 standard; peptide;
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                                                                                                                                                                                                                                                                                                   Bogoch ES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 26; DB Pred. No. 1.4e
1; Mismatches
                                                                                                                                                                                                                         useful for stimulating the immune or destroying replikin-containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 5;
1.4e+06;
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Query Match

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RESULT 25
ADD82912
ID ADD82
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AC ADD82
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AC ADD82
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DT 29-JA
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                                                                                                                                         Query Match
Best Local S
Matches 5
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                                                                                                                                                                                                 The invention describes an isolated replikin or recognin peptide (I) comprising 7-50 amino acids including at least one lysine residue locat 6 to 10 residues from a second lysine residue, at least one histidine residue and at least 6% lysine residues. The peptides are useful for stimulating the immune system, and for targeting, labelling or destroying replikin-containing organisms. The computer-readable mediums are useful for identifying a protein or peptide containing a replikin or recognin sequence. This is the amino acid sequence of a replikin peptide identified in the invention
          29-JAN-2004
                                                                                                                                                                                Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                         organisms.
                                                                                                                                                                                                                                                                                                                                 New replikins or recognin peptides, useful for stimulating the immune system, and for targeting, labeling or destroying replikin-containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Replikin;
                              ADD82912;
                                                 ADD82912
                                                                                                                                                                                                                                                                                                        Claim
                                                                                                                                                                                                                                                                                                                                                                                    Bogoch S,
                                                                                                                                                                                                                                                                                                                                                                                                         (BOGO/)
                                                                                                                                                                                                                                                                                                                                                                                                                                      27-MAR-2001; 2001US-0278761P
09-JUL-2001; 2001US-0303396P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-OCT-2001; 2001US-00984057.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Polyomavirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Replikin peptide sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABU57322
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABU57322;
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                                                                                                                                                                                                                                                                                                                                                                  2003-182530/18.
                                                                                                                                                                                                                                                                                                        79;
                                                                                                                                         Similarity
5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                         BOGOCH
BOGOCH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
5; Conserv
                                                                                                                    KFHRVIKD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard;
                                                 standard;
                                                                                                   KOHRELKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KOHRELKU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KFHRVIKD
                                                                                                                                                                                                                                                                                                      Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   immunostimulant; vaccine; recognin.
                                                                                                                                                                                                                                                                                                                                                                                    Bogoch ES;
                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry
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          (first entry
                                                                                                                                                                                                                                                                                                     3; 17pp;
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                                                peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  peptide;
                                                                                                                                                  53.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    62.5%;
                                                                                                                                                                                                                                                                                                       English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ω
                                                                                                                                         Score 26; DB
Pred. No. 1.4e
1; Mismatches
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1; Mismatches
                                                  AΑ
                                                                                                                                      ..4e+06;
les 2;
                                                                                                                                                            Length
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                                                                                                                                                                                                                                          destroying
                                                                                                                                         Gaps
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RESULT 26
ADD83072
ID ADD83
XX ADD83
AC ADD83
XX 29-JA
XX 121P1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes a composition (I) comprising a substance that modulates the status of 121PIF1 (gene and encoded protein), or a compresses 121PIF1 is modulated by 121PIF1, where the status of a cell that expresses 121PIF1 is modulated. The human 121PIF1 gene maps to chromosome 4q. (I) has cytostatic activity, and can be used in gene therapy, and in vaccines. The composition (I) can be used for diagnosing, preventing, compositicating or treating patients with cancer that expresses 121PIF1, such as breast, colon, ovarian or lung cancer. The 121PIF1 gene or its fragment can be used to elicit a humoral or cellular immune response. CC 121PIF1 antibodies can be used in active or passive immunisation. 121PIF1 polymucleotides are useful as probes and primers for the amplification or detection of 121PIF1 genes, as coding sequences for directing the expression of 121PIF1 polypeptides, or as tools for modulating or inhibiting the expression of 121PIF1 genes. The present sequence is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                ADD83072 standard; peptide; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Composition comprising a substance that modulates the status of 121P1F1, useful in diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or lung cancer.
                                                       Synthetic
                                                                                                     gene therapy;
                                                                                                                                                                                                                                                                                                ADD83072;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 21; SEQ ID NO 771; 285pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-156757/15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-NOV-2002
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                            Homo sapiens
                                                                                                                                 121P1F1; 121P1F1 modulation; human; chromosome
                                                                                                                                                                                    121P1F1 modulating CTL epitope peptide SEQ ID NO:931.
                                                                                                                                                                                                                                           29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-MAR-2001; 2001US-00799250
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121P1F1; 121P1F1 modulation; human; chromosome, 4q; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121P1F1 modulating CTL epitope peptide SEQ ID NO:771.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                       (first entry)
                                                                                                         vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hubert RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  53.1%;
66.7%;
                                                                                                           cancer;
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1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Raitano AB,
                                                                                                           immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.4e+06;
                                                                                                         response;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 7;
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                                                                                                         4q; cytostatic;
; immunisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 9;
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05-MAR-2001; 2001US-00799250 28-FEB-2002; 2002WO-US006242 28-NOV-2002.

WO200295009-A2

Synthetic

121P1F1; 121P1F1 modulation; human; chromosome 4q; cytostatic; gene therapy; vaccine; cancer; immune response; immunisation.

121P1F1 modulating

CTL epitope peptide #738

29-JAN-2004

(first entry)

<u>.</u>

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RESULT 27
ADD84184
ID ADD84
XX
AC ADD84
XX
DT 29-JA
XX
DT 121P1
XX
I21P1
XX
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Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  that modulates the status of 121P1F1 (gene and encoded protein), or a molecule that is modulated by 121P1F1 (gene and encoded protein), or a expresses 121P1F1 is modulated. The human 121P1F1 gene maps to chromosome 4q. (I) has cytostatic activity, and can be used in gene therapy, and in vaccines. The composition (I) can be used for diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or lung cancer. The 121P1F1 gene or its fragment can be used to elicit a humoral or cellular immune response. 121P1F1 antibodies can be used in active or passive immunisation. 121P1F1 polynucleotides are useful as probes and primers for the amplification or detection of 121P1F1 genes, as coding sequences for directing the expression of 121P1F1 polypeptides, or as tools for modulating or inhibiting the expression of 121P1F1 genes. The present sequence is used in the exemplification of the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADD84184 standard;
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Pred. No. 1.4e
1; Mismatches
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les 1;
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The present invention describes a composition (I) comprising a substance that modulates the status of 121P1F1 (gene and encoded protein), or a collecule that is modulated by 121P1F1, where the status of a cell that capresses 121P1F1 is modulated. The human 121P1F1 gene maps to chromosome condequence of the composition (I) can be used for diagnosing, preventing, colon, ovarian or lung cancer that expresses 121P1F1, condequence of the status of a cell that caprosing or treating patients with cancer that expresses 121P1F1, condequence or the composition, ovarian or lung cancer. The 121P1F1 gene or its fragment can be used to elicit a humoral or cellular immune response. CC fragment can be used in active or passive immunisation. 121P1F1 colynucleotides are useful as probes and primers for the amplification or detection of 121P1F1 genes, as coding sequences for directing the capression of 121P1F1 polypeptides, or as tools for modulating or inhibiting the expression of 121P1F1 genes. The present sequence is used in the exemplification of the present invention.
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Matches 4
                                                 Challita-Eid
Jakobovits A;
                                                                                                                   05-MAR-2001; 2001US-00799250
                                                                                                                                            28-FEB-2002; 2002WO-US006242
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gene therapy; vaccine; cancer; immune response; immunisation.
                                                                                                                                                                                                                                                                                                                                                                                           ADD84174 standard;
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                                                                                         (AGEN-)
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66.7%;
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Pred. No. 1.4e
1; Mismatches
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                                                             Raitano AB,
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1.4e+06;
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Composition comprising a substance that modulates the status

of 121P1F1

The present invention describes a composition that modulates the status of 121P1F1 (gene and

(I) comprising encoded protes

protein)

Claim

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AC ADD8
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KW 121P
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Matches 4
                                                                                                                                     Composition comprising a substance that modulates the status of 121P1F1, useful in diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or lung cancer.
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Jakobovits A;
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4; Conserv
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The present invention describes a composition (I) comprising a substance that modulates the status of 121P1F1 (gene and encoded protein), or a molecule that is modulated by 121P1F1, where the status of a cell that expresses 121P1F1 is modulated. The human 121P1F1 gene maps to chromosome 4q. (I) has cytostatic activity, and can be used in gene therapy, and in vaccines. The composition (I) can be used for diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or lung cancer. The 121P1F1 gene or its fragment can be used to elicit a humoral or cellular immune response. 121P1F1 antibodies can be used in active or passive immunisation. 121P1F1
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                                                                                                                                                                                                         Claim 21; SEQ ID NO 993; 285pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121P1F1 modulating CTL epitope peptide SEQ ID NO:993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                 Hubert RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      53.1%;
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Pred. No. 1.4e+06;
1; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                 Raitano
                                                                                                                                                                                                                                                                                                                                                                                                 AВ,
                                                                                                                                                                                                                                                                                                                                                                                                 Faris M,
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RESULT 31
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ADD83215
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AC ADD84
AC
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                                                  The present invention describes a composition (I) comprising a substance that modulates the status of 121PIF1 (gene and encoded protein), or a consecute that is modulated by 121PIF1, where the status of a cell that compresses 121PIF1 is modulated. The human 121PIF1 gene maps to chromosome 4q. (I) has cytostatic activity, and can be used in gene therapy, and in vaccines. The composition (I) can be used for diagnosing, preventing, cc prognosticating or treating patients with cancer that expresses 121PIF1, cc such as breast, colon, ovarian or lung cancer. The 121PIF1 gene or its fragment can be used to elicit a humoral or cellular immune response. CC 121PIF1 antibodies can be used in active or passive immunisation. 121PIF1 colypectides and primers for the amplification or detection of 121PIF1 genes, as coding sequences for directing the expression of 121PIF1 polypeptides, or as tools for modulating or inhibiting the expression of 121PIF1 genes. The present sequence is used in the exemplification of the present invention.
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Best Local S
Matches 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Composition comprising a substance that modulates the status of 121P1F1, useful in diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121P1F1 modulating CTL epitope peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cancer.
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4; Conserv
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Pred. No. 1.4e+06;
1; Mismatches 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO:1074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Faris M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
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Sequence 9

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RESULT 32
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                                                                                                                             The present invention describes a composition (I) comprising a substance that modulates the status of 121P1F1 (gene and encoded protein), or a consecute that is modulated by 121P1F1, where the status of a cell that expresses 121P1F1 is modulated. The human 121P1F1 gene maps to chromosome convectines. The composition (I) can be used for diagnosing, preventing, procedures. The composition (I) can be used for diagnosing, preventing, composition (I) can be used for diagnosing, preventing, couch as breast, colon, ovarian or lung cancer. The 121P1F1 gene or its fragment can be used to elicit a humoral or cellular immune response. CC 121P1F1 antibodies can be used in active or passive immunisation. 121P1F1 genes, as coding sequences for the amplification or detection of 121P1F1 genes, as coding sequences for directing the expression of 121P1F1 polypeptides, or as tools for modulating or inhibiting the expression of 121P1F1 genes. The present sequence is used in the exemplification of the present invention.
                                                    Query Match
Best Local S
Matches 4
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Best Local S
Matches 4
                                                                                                         Sequence 9 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene
                                                                                                                                                                                                                                                                                                                                                         Claim 21; Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Challita-Eid PM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-MAR-2001; 2001US-00799250
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                                                    Similarity
4; Conserv
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                           FHRVIK 7
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                                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                         224; 285pp; English
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                                                               53.1%;
66.7%;
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66.7%;
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1; Mismatches
                                                   Score 26; DB 7;
Pred. No. 1.4e+06;
1; Mismatches 1
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No. 1.4e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Faris M,
                                                                             Length 9;
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RESULT 34
ADD83010
ID ADD83
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AC ADD83
XX
DT 29-JA

ADD83010 standard;

peptide;

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ADD83010;

29-JAN-2004

(first entry)

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RESULT 33
ADD84150
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ADD84150
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AC ADD84
AC ADD84
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I21P1
XX
I21P1
XX
I22P-ICC
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AC ACC
PF 28-FE
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PF 28-FE
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Matches 4
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                                                                                                                                                                                                                                              Sequence 9 AA;
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gene therapy; vaccine; cancer; immune response;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (AGEN-) AGENSYS INC.
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                                                                                                                     Similarity 4; Conserv
                                                        FHRVIK 7
FHEIIK 6
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                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       225; 285pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hubert
                                                                                                                                                 53.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RS,
                                                                                                                   Score 26; DB
Pred. No. 1.4e
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Raitano AB,
                                                                                                                                                 1.4e+06;
                                                                                                                                                                                   DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Faris
                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4q; cytostatic;
; immunisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Σ
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patients
rarian or
                                                                                                                   Gaps
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RESULT 35
ADD84169
ID ADD84
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AC ADD84
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DT 29-JA
DE 121P1
XX
I21P1
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I2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes a composition (I) comprising a substance that modulates the status of 121P1F1 (gene and encoded protein), or a connected that is modulated by 121P1F1, where the status of a cell that compresses 121P1F1 is modulated. The human 121P1F1 gene maps to chromosome 4q. (I) has cytostatic activity, and can be used in gene therapy, and in vaccines. The composition (I) can be used for diagnosing, preventing, cytostatic activity and can be used in gene therapy, and in vaccines. The composition of the elicit a humoral or cellular immune response concert fragment can be used to elicit a humoral or cellular immune response. The polynucleotides are useful as probes and primers for the amplification or detection of 121P1F1 genes, as coding sequences for directing the expression of 121P1F1 polypeptides, or as tools for modulating or inhibiting the expression of 121P1F1 genes. The present sequence is used in the exemplification of the present invention.
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Best Local S
Matches 4
Synthetic.
Homo sapier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Composition comprising a substance that modulates the status of 121P1F1, useful in diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or lung cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene
                                                                              121P1F1; 121P1 gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 21; SEQ ID NO 869; 285pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-156757/15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Challita-Eid PM, Hubert RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-MAR-2001; 2001US-00799250
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                                                                                                                                                                                                                                                                                                                                        ADD84169 standard; peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200295009-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121P1F1 modulating CTL epitope peptide SEQ ID NO:869
                                                                                                                                                                      121P1F1
                                                                                                                                                                                                                           29-JAN-2004
                                                                                                                                                                                                                                                                                   ADD84169;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (AGEN-) AGENSYS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sapiens.
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sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        l Similarity
4; Conserv
                                                                                                                                                                    modulating
                                                                                     121P1F1 modulation; human; chromosome 4q; cytostatic; rapy; vaccine; cancer; immune response; immunisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FHEIIK 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FHRVIK 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lF1 modulation; human; chromosome
vaccine; cancer; immune response;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INC.
                                                                                                                                                                    CTL epitope peptide #723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      53.1%;
66.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 26; DB 7;
Pred. No. 1.4e+06;
1; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Raitano AB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          response;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 9;
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; immunisation.
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RESULT 36
ADD84188
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AC ADD84
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AC ADD84
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DT 29-JA
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DE 121P1
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121P1
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121P1
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Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Composition comprising a substance that modulates the status of 121P1F1, useful in diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 9
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Jakobovits A;
 05-MAR-2001; 2001US-00799250
                                                                                                                                            Synthetic
                                                                                                                                                                         gene therapy;
                                                                                                                                                                                                                                                       29-JAN-2004
                                                                                                                                                                                                                                                                                       ADD84188;
                                                                                                                                                                                                                                                                                                                     ADD84188 standard;
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                               28-FEB-2002;
                                                                28-NOV-2002
                                                                                              WO200295009-A2
                                                                                                                                                                             121P1F1; 121P1F1 modulation; human; chromosome 4q; cytostatic;
gene therapy; vaccine; cancer; immune response; immunisation.
                                                                                                                                                                                                                     121P1F1 modulating CTL epitope peptide #742.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                               2002WO-US006242
                                                                                                                                                                                                                                                       (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hubert RS,
                                                                                                                                                                                                                                                                                                                  peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                53.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 26; DB Pred. No. 1.4e 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Raitano
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 7;
1.4e+06;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 9;
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Query Match
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                                                                                                                                                                                                                                                     gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            that modulates the status of 121P1F1 (gene and encoded protein), or a molecule that is modulated by 121P1F1, where the status of a cell that expresses 121P1F1 is modulated. The human 121P1F1 gene maps to chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      composition comprising a substance that modulates the status of 121P1F1, useful in diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or lung cancer.
          WPI; 2003-156757/15
                                     Jakobovits
                                               Challita-Eid PM,
                                                                                                    05-MAR-2001; 2001US-00799250
                                                                                                                             28-FEB-2002; 2002WO-US006242
                                                                                                                                                         28-NOV-2002
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                                                                                                                                                                                                                                                                                                                                                                        ADD82989 standard; peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9
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                                                                                                                                                                                  WC200295009-A2
                                                                                                                                                                                                                                                  121P1F1; 121P1
gene therapy;
                                                                                                                                                                                                                                                                                           121P1F1
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                                                                           AGENSYS INC
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                                                                                                                                                                                                                                                  121P1F1 modulation; hurapy; vaccine; cancer;
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66.7%;
                                                                                                                                                                                                                                                                                          epitope peptide SEQ ID NO:848.
                                                 RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 26; DB 7;
Pred. No. 1.4e+06;
1; Mismatches 1
                                                                                                                                                                                                                                                   human; chromosome 4q; cytostatic r; immune response; immunisation.
                                                 Raitano
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                                                 AВ,
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                                                 Faris
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RESULT 38
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XX I21
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Best Local :
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121P1F1 antibodies can be used in active or passive immunisation. 121P1F1 polynucleotides are useful as probes and primers for the amplification or detection of 121P1F1 genes, as coding sequences for directing the expression of 121P1F1 polypeptides, or as tools for modulating or inhibiting the expression of 121P1F1 genes. The present sequence is used in the exemplification of the present invention.
                                                                                                                                          Composition comprising a substance that modulates the status of 121P1F1. useful in diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or
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Jakobovits A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121P1F1 modulating CTL epitope peptide SEQ ID NO:1067.
                                                                                                                  lung cancer.
                                                                                                                                                                                                                                                                                                                                                                                                            (AGEN-) AGENSYS INC.
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                                                                                                                                                                                                                                                                                                                                                     Hubert
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The present invention describes a composition (I) comprising a substance

Claim 21; SEQ ID NO 1067; 285pp; English

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Query Match
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The present invention describes a composition (I) comprising a substance that modulates the status of 121P1F1 (gene and encoded protein), or a molecule that is modulated by 121P1F1, where the status of a cell that expresses 121P1F1 is modulated. The human 121P1F1 gene maps to chromosome 4q. (I) has cytostatic activity, and can be used in gene therapy, and in vaccines. The composition (I) can be used for diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or lung cancer. The 121P1F1 gene or its fragment can be used to elicit a humoral or cellular immune response.
                                                                                                                                                                                                                                                       useful in diagnosing, preve
with cancer that expresses
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                                                                                                                                                                                                   Claim
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                                                                                                                                                                                                                                          cancer.
                                                                                                                                                                                                  21; SEQ ID NO 838; 285pp;
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66.7%;
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                           The present invention describes a composition (I) comprising a substance that modulates the status of 121P1F1 (gene and encoded protein), or a collecule that is modulated by 121P1F1, where the status of a cell that capresses 121P1F1 is modulated. The human 121P1F1 gene maps to chromosome (C) (I) has cytostatic activity, and can be used in gene therapy, and in vaccines. The composition (I) can be used for diagnosing, preventing (C) prognosticating or treating patients with cancer that expresses 121P1F1, can be used for diagnosing, preventing, colon, ovarian or lung cancer. The 121P1F1 gene or its fragment can be used to elicit a humoral or cellular immune response. CC 121P1F1 antibodies can be used in active or passive immunisation. 121P1F1 ceaperssion of 121P1F1 genes, as coding sequences for the amplification or detection of 121P1F1 genes, as coding sequences for directing the expression of 121P1F1 polypeptides, or as tools for modulating or inhibiting the expression of 121P1F1 genes. The present sequence is used in the exemplification of the present invention.
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                                                                                                                                                                                                                                                                                                                                                         useful in diagnosing, preventing, prognostic with cancer that expresses 121P1F1, such as lung cancer.
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                                                                                                                                                                                                                                                                                                                        Claim 21; SEQ ID NO 1122; 285pp; English
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                                                                                                                         The present invention describes a composition (I) comprising a substance that modulates the status of 121P1F1 (gene and encoded protein), or a CC molecule that is modulated by 121P1F1, where the status of a cell that CC expresses 121P1F1 is modulated. The human 121P1F1 gene maps to chromosome 4q. (I) has cytostatic activity, and can be used in gene therapy, and in vaccines. The composition (I) can be used for diagnosing, preventing, CC prognosticating or treating patients with cancer that expresses 121P1F1, CC such as breast, colon, ovarian or lung cancer. The 121P1F1 gene or its fragment can be used to elicit a humoral or cellular immune response. CC 121P1F1 antibodies can be used in active or passive immunisation. 121P1F1 polymucleotides are useful as probes and primers for the amplification or detection of 121P1F1 genes, as coding sequences for directing the expression of 121P1F1 polypeptides, or as tools for modulating or inhibiting the expression of 121P1F1 genes. The present sequence is used in the exemplification of the present invention.
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                                                                                                    Sequence 9
                                                                                                                                                                                                                                                                                                                                            Claim 21; SEQ ID NO 707;
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PHEIIK
                      FHRVIK
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                                                                                                                                                                                                                                                                                                                                           285pp;
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1; Mismatches
                                                Score 26; DB 7;
Pred. No. 1.4e+06;
1; Mismatches 1
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RESULT 43
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RESULT 42
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                                                                                                                                                                                                                                                   Sequence 9 AA;
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                                                                                                                        Similarity 66. 4; Conservative
                                                                FHRVIK 7
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                                                                                                                           Score 26; DB Pred. No. 1.4e
1; Mismatches
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   Synthetic
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                                                 gene therapy; vaccine; cancer; immune response;
                                                                                                                                                                         29-JAN-2004
                                                                                                                                                                                                                       ADD83203;
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                                                                         121P1F1; 121P1F1 modulation; human; chromosome 4q; cytostatic;
                                                                                                                     121P1F1 modulating CTL epitope peptide SEQ ID NO:1062
                                                                                                                                                                                                                                                                   ADD83203 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-FEB-2002; 2002WO-US006242
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                                                   immunisation.
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             28-FEB-2002; 2002WO-US006242
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                                                                                                                    Synthetic
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                                                                                                                                                                                                                                                                                         ADD84128 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 21; SEQ ID NO 1062; 285pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Challita-Eid PM, Hubert RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-MAR-2001; 2001US-00799250
                                                                         WO200295009-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-FEB-2002; 2002WO-US006242
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                                                                                                                                                                                                                                                                                                                                                                     4 FHEIIK 9
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                                                                                                                                                                                               CTL epitope peptide #682.
                                                                                                                                                                                                                                                                                                                                                                                                                               Score 26; DB ?
Pred. No. 1.4e-
1; Mismatches
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Search completed: August 30, 2004, 10:49:20 Job time : 16.4088 secs
                                                                                                                                                                                                                                                                         The present invention describes a composition (I) comprising a substance that modulates the status of 121P1F1 (gene and encoded protein), or a collecule that is modulated by 121P1F1, where the status of a cell that compresses 121P1F1 is modulated. The human 121P1F1 gene maps to chromosome (C) (I) has cytostatic activity, and can be used in gene therapy, and in vaccines. The composition (I) can be used for diagnosing, preventing, colon, ovarian or lung cancer that expresses 121P1F1, such as breast, colon, ovarian or lung cancer. The 121P1F1 gene or its for fragment can be used to elicit a humoral or cellular immune response. CC fragment can be used in active or passive immunisation. 121P1F1 golynucleotides are useful as probes and primers for the amplification or detection of 121P1F1 genes, as coding sequences for directing the expression of 121P1F1 polypeptides, or as tools for modulating or inhibiting the expression of 121P1F1 genes. The present sequence is used in the exemplification of the present invention.
                                                                                                                                                          Query Match
Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Composition comprising a substance that modulates the status of 121P1F1, useful in diagnosing, preventing, prognosticating or treating patients with cancer that expresses 121P1F1, such as breast, colon, ovarian or lung cancer.
                                                                                                                                                                                                                                         Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 21; Page 224; 285pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-156757/15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Jakobovits A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Challita-Eid PM, Hubert RS, Raitano AB, Faris M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-MAR-2001; 2001US-00799250.
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                                                                             1 FHEIIK 6
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                                                                                                                                                        h 53.1%;
Similarity 66.7%;
4; Conservative
                                                                                                                    FHRVIK 7
                                                                                                                                                          Score 26; DB 7; Length 9; Pred. No. 1.4e+06; Indels 1; Indels
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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                                                                                 score greater and is derived
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                                                                             is the number of results predicted by chance to have a ater than or equal to the score of the result being printed, rived by analysis of the total score distribution.
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Query
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Gapop 10.0 , Gapext 0.5
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                                                                                                                                                                Issued_Patents_AA:*

1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*

2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*

3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*

4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*

5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*
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Copyright (c) 1993 - 2004 Compugen Ltd.
                                          SUMMARIES
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equence 1, Ap equence 22, A equence 15, A equence 68, A equence 68, A equence 98, A equence 98, A equence 99, A equence 99, A equence 99, A equence 99, A equence 11, A equence 85, A equence 85, A equence 114, A equence 114, A equence 114, A equence 29, A equence 29, A equence 114, A equence 29, A	iption

Query Match 55... Best Local Similarity 50.0 Matches 4; Conservative

55.1%; 50.0%;

Score 27; DB 3; Pred. No. 47; 3; Mismatches

Length 10; Indels

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US-09-226-666-7	US-08-993-235-11	US-08-973-559-31	US-08-973-563A-31	PCT-US96-11495-8	US-08-503-062-8	PCT-US93-00228-10	US-08-836-075A-205	US-08-556-597-122	US-08-397-633A-93	US-08-256-236-10	US-09-601-729-252	US-08-159-339A-1002	PCT-US93-00228-8	PCT-US93-00228-7	US-08-256-236-8	US-08-256-236-7	PCT-US96-09809-29
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
7, Appli	11, Appl	31, Appl	31, Appl	8, Appli	8, Appli	10, Appl	205, App	122, App	·	10, Appl	252, App	1002, Ap	8, Appli	7, Appli			29, Appl

ALIGNMENTS

RESULT 1

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CITY: HOUSELY,
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MICTOSOFT WORD 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICOR A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: 10,775
REFERENCE/DOCKET NUMBER: 10,775
REFERENCE/DOCKET NUMBER: 10,775
REFERENCE/DOCKET NUMBER: 204:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 maino acids
TYPE: amino acids
TYPE: TYPE: peptide
US-08-836-075A-204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-836-075A-204
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: STUYVER, L
TITLE OF INVENTION: N
TITLE OF INVENTION: A
TITLE OF INVENTION: A
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: ARNOLD, WHITE STREET: P.O. BOX 4433 CITY: HOUSTON
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NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
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GENERAL INFORMATION:

APPLICANT: Jones, Michael H.

TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR

FILE REFERENCE: 06501-043001

CURRENT APPLICATION NUMBER: US/09/418,780A

CURRENT FILING DATE: 1999-10-15

PRIOR APPLICATION NUMBER: PCT/JP98/01782

PRIOR FILING DATE: 1998-04-17

PRIOR APPLICATION NUMBER: JAPAN 9/116402

PRIOR FILING DATE: 1997-04-18
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                                                                                                                                                                                                                US-09-418-780A-14
; Sequence 14, Application US/09418780A
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Matches
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                                                                                                                                                                                               Patent No.
NUMBER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (810) 689-4071
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE/DOCKET NUMBER: P-TELECOMMUNICATION INFORMATION: TELEPHONE: (810) 689-3500
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
NAME: Kohn, Kenneth I.
REGISTRATION NUMBER: 30,955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Reising, Ethington, Barnard & Perry
STREET: P.O. Box 4390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: FILING DATE: CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LE OF INVENTION: PRODUCTION OF ANTI-PEPTIDE ANTIBODIES LE OF INVENTION: AGAINST CYTOCHROME P450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION:
                                                                                                                                                                                                                                                                                                                                         3 HRVIKD 8
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                                                                                                                                                                                                                                                                                                                                                                               Similarity 5; Conser
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5866688
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Putt, David A.
Kim, Edward Y.
                                                                                                                                                                                                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                                            55.1%;
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                                                                                                                                                                                                                                                                                                                                                                             Score 27; DB Pred. No. 57; 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                 DB 2;
57;
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US-09-446-787B-91
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US-09-418-780A-22
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-418-780A-14
                                                                                                                                   SOFTWARE: Patr
SOFTWARE: Patr
; SEQ ID NO 91
TONGTH: 12
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                             Query Match
Best Local S
Matches 3
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Best Local Similarity 50.0
                                                                                                                                                                                                                                                                                                                        Sequence 91, Applicat Patent No. 6541198 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent No. 6504009
GENERAL INFORMATION:
APPLICANT: Jones, Michael H.
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
FILE REFERENCE: 06501-043001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 22,
                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/446,7878
CURRENT FILING DATE: 2000-01-13
NUMBER OF SEQ ID NOS: 97
                                                                                                                                                                                                                             APPLICANT: Akzo No. 6541198el N.V.
APPLICANT: Paulij, Wilhemina P.
APPLICANT: Van Kessel-Koens, Marjolijin J.
TITLE OF INVENTION: Antibodies and other binding molecules specific for hepatitis B
TITLE OF INVENTION: antigens
FILE REFERENCE: 9310-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/418,780A CURRENT FILING DATE: 1999-10-15 PRIOR APPLICATION NUMBER: PCT/JP98/01782 PRIOR FILING DATE: 1998-04-17 PRIOR APPLICATION NUMBER: JAPAN 9/116402 PRIOR FILING DATE: 1997-04-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS:
                                                                                                                         TYPE: P
                                                                                                    TYPE: PRT ORGANISM: Hepatitis B virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT ORGANISM: Drosophila melanogaster
                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 FHRVIK 7
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                              Similarity
3; Conserv
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                                                                                                                                                                                                                                                                                                                                                     Application US/09446787B
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                             49.0%; llarity 42.9%; Conservative
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                                                                                                                                                                     version 3.1
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                             Score 24; DB 4;
Pred. No. 2e+02;
3; Mismatches
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Pred. No. 1.
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Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 4;
1.2e+02;
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; FILING DATE: US-08-909-551-15
                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO: 15
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-909-551-15
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Patent No. 6261777
PATENTAL INFORMATION:
COMIS, ALFIO
Query Match 49.
Best Local Similarity 42.
Matches 3; Conservative
                                                                                             NAME/KEY: Region
LOCATION: 1.14
OTHER INFORMATION: /label= A
OTHER INFORMATION: /note= "TH
OTHER INFORMATION: 127-140 OF
PUBLICATION INFORMATION: 127-140 OF
PUBLICATION INFORMATION: 127-140 OF
PUBLICATION INFORMATION: 27-AUG-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/909,551
FILING DATE: 12-AUG-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/387,932
FILING DATE: 27-FEB-1995
APPLICATION NUMBER: PCT/AU93/00441
FILING DATE: 27-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU 4374
FILING DATE: 27-AUG-1992
ATTORNEY/AGENT INFORMATION:
NUMBER: BAL MACKET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Vers.

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                             ANTI-SENSE: NO FRAGMENT TYPE: internal ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER: 31,215
REFERENCE/DOCKET NUMBER: GHC2USA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-540-9200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: Retro-, In TITLE OF INVENTION: Synthetic NUMBER OF SEQUENCES: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: FISCHER, PETER
APPLICANT: TYLER, MARGARET I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: Howson and Howson
STREET: Spring House Corporate Cntr.,
CITY: Spring House
STATE: Pennsylvania
COUNTRY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: 215-540-92
TELEFAX: 215-540-5818
                                                                                                                                                                                                                                                                                       ORGANISM: Hepatitis B virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15, Application US/08909551
5. 6261569
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                  49.0%; Score 24; DB 3;
42.9%; Pred. No. 2.4e+02;
                                                                                                                                                              /label= A
/note= "THIS PEPTIDE CORRESPONDS TO RESIDUES
127-140 OF THE PRE S PROTEIN OF HBV."
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   3; Mismatches
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ic Peptide
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Analogues
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RESULT 8
US-08-485-286-68
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                                                                                                                                 Sequence 68, Application US/08485286
Patent No. 5646026
Patent No. 5646026 5646119
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: (317) 337-484
INFORMATION FOR SEQ ID NO: 6
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: WALSH,
APPLICANT: HEY, TH
APPLICANT: MORGAN,
                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/
FILING DATE: 26-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BORUCKI, ANDREA T
REGISTRATION NUMBER: 33651
                                           APPLICANT: WALSH, TERENCE A APPLICANT: HEY, TIMOTHY D APPLICANT: MORGAN, ALICE ER TITLE OF INVENTION: RIBOSOMETITLE OF INVENTION: USING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 38.
TELECOMMUNICATION INFORMATION:
NUMBER OF SEQUENCES: 8:
CORRESPONDENCE ADDRESS:
ADDRESSEE: ANDREA T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
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CITY: INDIANAPOLIS
STATE: IN
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                                                                                                                                                                                                                                                              6 RVVKD 10
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                                          RIBOSOME-INACTIVATING PROTEINS, INACTIVE PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD USING
                                                                                                                                                                                                                                                                                                                                        46.9%;
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LLE ROAD
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Pred. No. 2.9e+02
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NDREA T. BORUCKI ZIONSVILLE ROAD

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RESULT 9
US-08-260-582-8
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Best Local Similarity
Matches 4; Conserv
          COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Ver
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/260,582
FILING DATE: 16-JUN-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Meinert, M. C.
REGISTRATION NUMBER: 31,544
REFERENCE/DOCKET NUMBER: GI 5236
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 876 56-1170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: McCoy,
APPLICANT: Lu, Zhi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO: 68: SEQUENCE CHARACTERISTICS: LENGTH: 11 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
FILING DATE: 26-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: BORUCKI, ANDREA T
REGISTRATION NUMBER: 33651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 38 TELECOMMUNICATION INFORMATION: TELEPHONE: (317) 337-4846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,286
                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: METHOD OF DETITLE OF INVENTION: INTERACTIONS UMBER OF SEQUENCES: 76
TELEFAX:
                                                                                                                                                                                                                                                                                                                                                            STREET:
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                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6 RVVKD 10
                                                                                                                                                                                                                                                                                                                                          Cambridge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      46268
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                                                                                                                                                                                                                                                                                                                        Massachusetts
                                                                                                                                                                                                                                                                                                                                                           87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                         U.S.
(617) 876-5851
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linear
                                                                                                                                                                                                                                                                                                                                                                                 Genetics Institute, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Zhijian
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    METHOD OF DETECTING LIGAND
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Pred. No. 2.9e+02;
1; Mismatches C
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                                                                                                                                                                                                Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 11;
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Query Match
Best Local Similarity
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                                                                                                                      ; MOLECULE TYPE: peptide US-08-482-228-98
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Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                            ZIP: 92713-5210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,228

FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Guthrie, Janice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent No. 596875
                                                                                                                                                                                                  TELEPHONE: (714) 440-5353
TELEFAX: (714) 553-1952
INFORMATION FOR SEQ ID NO: 98:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                               NAME: Guthrie, Janice REGISTRATION NUMBER: 35,170 REFERENCE/DOCKET NUMBER: IT TELECOMMUNICATION INFORMATION: (714) 440-5353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Janice Gu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Deans, Robert J.
TITLE OF INVENTION: POSITIVE AND POSITIVE/NEGATIVE CELL
TITLE OF INVENTION: SELECTION MEDIATED BY PEPTIDE RELEASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: peptide
                                                                                                                                                      TYPE: amino acid
TOPOLOGY: circular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Irvine
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                   LENGTH:
                              1 KFHRVIKD 8
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Similarity 66.7%;
4; Conservative
EFLRCIKD 12
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                                                                                                                                                                                   12 amino acids
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                                                             Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Helgerson,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Janice Guthrie, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Joan
                                                                          46.9%;
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                                                                                                                                                                                                                                                                                          35,170
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                                                            Score 23; DB 2;
Pred. No. 3.1e+0
1; Mismatches
                                                        1e+02;
2;
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RESULT 11

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RESULT 12
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                                                                                                                                                       Sequence 8, Application PC/TUS9505471

GENERAL INFORMATION:
APPLICANT:
APPLICANT:
TITLE OF INVENTION: METHOD OF DETECTING LIGAND INTERACTIONS
NUMBER OF SEQUENCES: 76
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 98, Applicat Patent No. 6017719 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local 8
                                                                          SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/05471
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (714) 553-195
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0,
CURRENT APPLICATION DATA:
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 35,170
REFERENCE/DOCKET NUMBER: IT
TELECOMMUNICATION INFORMATION: (714) 440-5353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (714)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ITLE OF INVENTION: POSITIVE AND POSITIVE/NEGATIVE CELL ITLE OF INVENTION: SELECTION MEDIATED BY PEPTIDE RELEASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
TOPOLOGY: circula
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: FILING DATE: 07-JUN CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Irvine
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE:
                             LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92713-5210
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Deans, Robert J.
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linear
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N: 435
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--- NO: 98:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   46.9%;
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Pred. No. 3.1e
1; Mismatches
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RESULT 14 TO THE US-08-482-528-99

Sequence 99, Application US/08482528 Patent No. 6017719

GENERAL INFORMATION:
APPLICANT: Tseng-Law, Janet
APPLICANT: Kobori, Joan A.

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                                                                                                             ; TOPOLOGY: circular; MOLECULE TYPE: peptide US-08-482-228-99
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Best Local :
                                                  Query Match
Best Local Similarity
Matches 5; Conserv
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                                                                                                                                                                 TELEFAX: (714) 553-1952
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/08, FILING DATE: 07-JUN-1995 CLASSIFICATION: 435 ATTORNEY/AGENT INFORMATION: NAME: Guthrie, Janine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDITION OF THE STREET: F. STREET: F. California USA
                                                                                                                                                                                                                                                                                                                                                      ZIP: 92713-5210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: IT TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: POSITIVE AND POSITIVE/NEGATIVE CELL TITLE OF INVENTION: SELECTION MEDIATED BY PEPTIDE RELEASE NUMBER OF SEQUENCES: 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT
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                                                                                                                                                                                                                                                                     NAME: Guthrie, Janice REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
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                        1 KFHRVIKD 8
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                                                                                                                                                    amino acids
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EFLRCIKD 13
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Kobori, Joan A.
Al-Abdaly, Fahad A.
Guillermo, Roy
Helgerson, Sam L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P.O. Box 15210
                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Janice Guthrie, Ph.D.
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                                                                    46.9%;
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                                                                    Score 23;
Pred. No.
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Pred. No. 3.
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                                                                    4e+02
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                                                                                                                                                                                                                                                                                                                                                                                         Sequence 85, Application US/08974549A Patent No. 6166178 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (714) 553-1952 INFORMATION FOR SEQ ID NO: 99:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
                                                                                                                                                                                                                                                                                                                APPLICANT:
APPLICANT:
APPLICANT:
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TITLE OF I
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MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/482,528

FILING DATE: 07-JUN-1995

CLASSIFICATION: 435

CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: TELEPHONE: (714) 440-5353
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ADDRESSEE: Janice Guthrie, Ph.D.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
TOPOLOGY: circular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Guthrie, Janice REGISTRATION NUMBER: 35, REFERENCE/DOCKET NUMBER:
                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 92713-5210
                                                                                                                                                                                     ADDRESSEE:
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                                                                                                                                                                                                                     ANT: Morin, Gregg B.
ANT: Harley, Calvin B.
ANT: Andrews, William H.
OF INVENTION: Human Telomerase Catalytic Subunit
OF EQUENCES: 727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        46.9%;
l Similarity 62.5%;
5; Conservation
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                                                                                               94111-3834
                                                                                                                                                 San Francisco
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                                                                                                                               California
                                                                                                                                                                   E: Townsend and Townsend and Crew LLP Two Embarcadero Center, Eighth Floor
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                                                                                                                                                                                                                                                                                                                  Nakamura, Toru
Chapman, Karen B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Al-Abdaly,
Guillermo,
                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                  Lingner, Joachim
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                                                                                                                                                                                                                                                                                                                                                                        Thomas R.
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Pred. No. 3.4e+02;
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APPLICANT: Cech, Thomas R. APPLICANT: Lingner, Joachim APPLICANT: Nakamura, Toru

INFORMATION:

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                                      RESULT 16
US-08-912-951-85
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Sequence 85, Application US/08912951 Patent No. 6475789
                                                                                                                                                                                  Matches
                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US97/17618
APPLICATION NUMBER: WO PCT/US97/17618
FILING DATE: 01-OCT-1997
PRIOR APPLICATION NUMBER: WO PCT/US97/17885
APPLICATION NUMBER: WO PCT/US97/17885
FILING DATE: 01-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph Ted
REGISTRATION NUMBER: 36,429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 08/911,312
FILING DATE: 14-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/912,951
FILING DATE: 14-AUG-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATE: 09-PM.
FILING DATE: 09-PM.
PRIOR APPLICATION NUMBER: US 08/911,312
APPLICATION NUMBER: 14-AUG-1997
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PRIOR APPLICATION NUMBER: US 08/844,419

PRICTURE DATE: 18-APR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/915,503
FILING DATE: 14-AUG-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-OCT-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 015389-002610US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 06-MAY-PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                      LOCATION: 1..13
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
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APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: (415) 576-0300 TO NO: 85:
                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                               NAME/KEY: Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ENGTH:
                                                                                                                                                4 RVIKDF 9
                                                                                                                                                                                  4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    13 amino acids
                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                     linear
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06-MAY-1997
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25-APR-1997
                                                                                                                                                                                                 46.9%;
                                                                                                                                                                                                                                                                      /note= "telomerase RT palm, primer grip
motif C peptide from Schizosaccharomyces
pombe TRT"
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Pred. No. 3.4e+0
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NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 0153:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEPAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 85:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
                                                                                   Query Match
Best Local
                                                                    Matches
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/854,050
FILING DATE: 09-MAY-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/912,951
FILING DATE: 14-AUG-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 435
PRIOR APPLICATION DATA:
US 08/724,643
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APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Andrews, William H.
TITLE OF INVENTION: HUMAN TELOMERASE CATALYTIC SUBUNIT:
TITLE OF INVENTION: THERAPEUTIC METHODS
                                                                                                                                                        NAME/KBY: Peptide LOCATION: 1..13
OTHER INFORMATION: OTHER INFORMATION: OTHER INFORMATION:
                                                                                                                                                                                                                                                                    MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 0 FILING DATE: 01-OCT-1996 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: San Francisco
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                                                                                                                                                                                                                                                                                        OPOLOGY: 1i
                                                                                                                                                                                                                                                                                                                                        ENGTH:
                                                                   Similarity 66.'
4; Conservative
                                                                                                                                                                                                                                                                                                                      1: 13 amino acids amino acid
                                RVIKDF 9
RVVDDF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3: Townsend and Townsend and Crew LLP
Two Embarcadero Center, 8th Floor
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Morin, Gregg
Harley, Calvi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            United States of America
                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                   peptide
                                                                                   46.9%;
66.7%;
                                                                                                                                                     /note= "telomerase RT palm, primer grip
motif C peptide from Schizosaccharomyces
pombe TRT"
                                                                                                                                                                                                                                                                                                                                                                                                                                                   015389-002600US
                                                                 Score 23; DB 4;
Pred. No. 3.4e+02;
1; Mismatches 1
                                                                                                  Length 13;
                                                                   Indels
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                                                                Gaps
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US-09-402-181B-85
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SEQUENCE
JS-09-402-181B-85
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Patent No. 6610839
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                           TELEFAX: (415) 576-0: INFORMATION FOR SEQ ID NO: 85: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: WO PCT/US97/17885 FILING DATE: 01-OCT-1997 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: SYSTEM: PC-DOS/MS-DOS

OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/09/402,181B
FILING DATE: 29-Sep-1997
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                  NAME: Ausenhus, Scott L.
REGISTRATION NUMBER: 42,271
REFERENCE/DOCKET NUMBER: 015389-002620US
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
                                                                                                             NAME/KEY:
                                                                                                                                                                               MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Andrews, William H.
TITLE OF INVENTION: Human Telomerase Catalytic Subunit
NUMBER OF SEQUENCES: 633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Cech, Thomas R
                                                        OTHER INFORMATION: /note= "telomerase RT palm, primer grip motif C peptide from Schizosaccharomyces
                                                                                                                                                                                                        STRANDEDNESS: <Unknown>
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
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STATE: California
                                                                                                                                                                                                                                                TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 08/724,643 FILING DATE: 01-OCT-1996
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                                                                                                                                                                                                                                                                      LENGTH: 13 amino acids
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LING DATE: 14-AUG-1997
                  DESCRIPTION: SEQ ID NO: 85:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CATION NUMBER: US 08/912,951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CATION NUMBER:
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Morin, Gregg B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nakamura, Yoru
Paraman, Karen B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Harley, Calvin B.
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Wakamura, Toru
                                                                                                                              Peptide
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14-AUG-1997
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US-09-721-456-85
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Patent No. 6617110
GENERAL INFORMATION:
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Best Local Similarity
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                    INFORMATION FOR SEQ ID NO: 85: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                           APPLICATION NUMBER: WO PCT/US97/17618
FILING DATE: 01-OCT-1997
APPLICATION NUMBER: WO PCT/US97/17885
FILING DATE: 01-OCT-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nakamura, Toru
Chapman, Karen B.
Morin, Gregg B.
Harley, Calvin B.
Andrews, William H.
TITLE OF INVENTION: Human Telomerase Catalytic Subunit
NUMBER OF SEQUENCES: 727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0,

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/09/721,456
FILING DATE: 22-No. 6617110-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                           NAME: Apple, Randolph Ted
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 015389-002610US
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4 RVIKDF 9
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APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-OCT-1996
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
APPLICATION NUMBER: US 08/851,843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: San Francis
STATE: California
                                                               TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US 08/911,312 FILING DATE: 14-AUG-1997 APPLICATION NUMBER: US 08/912,951 FILING DATE: 14-AUG-1997
DENGTH: 13 amino acids
                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 08/915,503 FILING DATE: 14-AUG-1997
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US-08-646-981-13
                                                                                                                                                                                                                                                                                                                                                                                        ; TOPOLOGY: linear; MOLECULE TYPE: peptide US-08-646-981-13
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Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: WEINER, MARC S
REGISTRATION NUMBER: 32,181
REFERENCE/DOCKET NUMBER: 148
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
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TITLE OF INVENTION: FRA
TITLE OF INVENTION: IMM
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA
ZIP: 22040-0747
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/646,98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
STRANDEDNESS: sir
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              , 13, ...
No. 5852183
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                                                                                     5 VIKDE
                                                                                                                                                                                              4.
                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ٧A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9 amino acids
                                                                                                                                                                                              Conservative
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VENTION: DOG-MOUSE HETEROHYBRIDOMA AND GENE
VENTION: FRAGMENT CODING FOR CONSTANT REGION OF CANINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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KIMACHI, KAZUHIKO
ONO, YOICHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C peptide from Schizosaccharomyces
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                                                                                                                                                                                                  Score 22; DB 2;
Pred. No. 3e+05;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 23; DB 4;
Pred. No. 3.4e+02;
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RESULT 22
US-09-833-039A-114
; Sequence 114, Application US/09833039A
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-105-839D-72
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US-09-105-839D-72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: US 08/851,130
PRIOR FILING DATE: 1997-05-05
NUMBER OF SEQ ID NOS: 72
SEQ ID NO 72
I.ENCORE
                                                                                                                                                                            Query Match
Best Local S
Matches 3
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Best Local S
Matches 3
                                                                                                                                                                                                                                                 ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                             SEQ ID NO 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence 72, Application US/09105839D Patent No. 6287756
                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 09/105,839
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: US 08/851,130
PRIOR FILING DATE: 1997-05-05
NUMBER OF SEQ ID NOS: 132
                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: LUD 5556.1
CURRENT APPLICATION NUMBER: US/09/344,040C
CURRENT FILING DATE: 1999-06-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Ramensee, Hans Georg
APPLICANT: Stevanovic, Stefan
TITLE OF INVENTION: Method for Determining Presence of Cancer In a Sam
TITLE OF INVENTION: Expression of an SSX Gene, Peptides Derived From
TITLE OF INVENTION: Gene, and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Sahin, Ugur
APPLICANT: Gure, Ali
APPLICANT: Old, Lloyd J
APPLICANT: Pfreundschuh, Michael
TITLE OF INVENTION: Method for Determining Presence of Cancer In A Sample By Determining of Invention: Expression of an SSX gene
FILE REFERENCE: LUD 5556
CURRENT APPLICATION NUMBER: US/09/105,839D
CURRENT FILING DATE: 1998-06-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Tureci, Ozlem APPLICANT: Chen, Yao-Tseng
                                                                                                                                                                                                                                                                                            LENGTH: 10
TYPE: PRT
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Similarity 50.0%;
3; Conservative
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Similarity 50.0%;
3; Conservative
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Pfreundschuh, Michael
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Pred. No. 4e+02;
2; Mismatches 1
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APPLICANT: Tureci, Ozlem
APPLICANT: Sahin, Ugur
APPLICANT: Shin, Ugur
APPLICANT: Pfreundschuh, Michael
TITLE OF INVENTION: Tumor Associated Peptide and Uses Thereof
FILE REFERENCE: LUD 5622.1
CURRENT APPLICATION NUMBER: US/09/833,039A
CURRENT FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: US 09/409,455
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 09/344,040
PRIOR FILING DATE: 1999-06-26
NUMBER OF SEQ ID NOS: 131
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US-07-778-233B-29
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Pate
SEQ ID NO 114
LENGTH: 10
                                                                                                            COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC.compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/778,233B
FILING DATE: 19911016
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 11509-50
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2420
TELEFAX: 415-326-2420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match

Best Local Similarity 50.0

Matches 3; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 29, Application US/07778233B Patent No. 5270170
                                         TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Schatz, Peter J.
APPLICANT: Cull, Millard G.
APPLICANT: Miller, Jeff F.
TITLE OF INVENTION: Peptide Library and Screening Method
NUMBER OF SEQUENCES: 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: San Francisco
STATE: California
ENGTH: 12 amino acids
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                                                                          29:
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Pred. No.
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4e+02;
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MMEDIATE SOURCE:

STRANDEDNESS:

single

RESULT 25 US-08-290-641-29 ; Sequence 29, Application US/08290641 ; Patent No. 5498530 ; CLONE: 26 4 0.8 US-07-778-233B-29 RESULT 24 US-07-963-321-29 밁 Ś ДĎ 8 CLONE: 26 US-07-963-321-29 Patent No. 5338665

GENERAL INFORMATION:
APPLICANT: Schatz, Peter J.
APPLICANT: Cull, Millard G.
APPLICANT: Miller, Jeff F.
APPLICANT: Stemmer, Willem P.C.
APPLICANT: Stemmer, Willem P.C.
TITLE OF INVENTION: Peptide Library and Screening Method NUMBER OF SEQUENCES: 91
CORRESPONDENCE ADDRESS: TBLEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single Best Local Similarity 60.0 Matches 3; Conservative Query Match
Best Local Similarity
Matches 3; Conserv Sequence Query Match TOPOLOGY: linear MOLECULE TYPE: peptide IMMEDIATE SOURCE: CLONE: 26 4 0.8 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/778,223
FILING DATE: 16-OCT-1991
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 11509-50-1 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA: COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk TELEPHONE: 415-326-2400 APPLICATION NUMBER: US FILING DATE: 19921015 CLASSIFICATION: 435 3 HRVIK 7 6 HRVVR 10 6 HRVVR 10 3 HRVIK 7 San Francisco California Application US/07963321 E: William M. Smith
One Market Plaza, Steuart Tower, Suite 2000 USA Conservative 44.9%; 44.9%; US/07/963,321 29: Score 22; DB 1; Pred. No. 4.8e+02; 2; Mismatches 0 Score 22; DB 1; L. Pred. No. 4.8e+02; 2; Mismatches 0; Length 12; Length 12; Indels 0; 0; Gaps Gaps 0 0

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US-08-548-540-29
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INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS: single
APPLICANT: Schatz, Peter J.
APPLICANT: Cull, Millard G.
APPLICANT: Miller, Jeff F.
APPLICANT: Miller, Jeff F.
APPLICANT: Stemmer, Willem P.C.
APPLICANT: Gates, Christian M.
ITTLE OF INVENTION: Peptide Library and Screening Method NUMBER OF SEQUENCES: 162
CORRESPONDENCE ADDRESS:
ADDRESSE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match

Best Local Similarity

Matches 3; Conserv
                                                                                                                                                                                                                                                                         Sequence 29, Ap
Patent No. 5733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/963,321
FILING DATE: 15-OCT-1992
APPLICATION NUMBER: US 07/778,223
APPLICATION NUMBER: 16-OCT-1991
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REGISTRATION NUMBER: 30,223
                                                                                                                                                                                                                                                        GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear MOLECULE TYPE: peptide IMMEDIATE SOURCE: CLONE: 26 4 0.8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 11509-50-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/0:
FILING DATE: 15-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: One Market P.
CITY: San Francisco
STATE: California
COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LICANT: Miller, Jeff F.
LICANT: Stemmer, Willem P.C.
LE OF INVENTION: Peptide Library and Screening Method
                                                                                                                                                                                                                                                                                                                                                                                                     6 HRVVR 10
                                                                                                                                                                                                                                                                                                                                                                                                                                             3 HRVIK 7
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33731
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One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Schatz, Peter J. Cull, Millard G.
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Pred. No. 4.8e+02;
2; Mismatches 0
                                                                                                                               Screening Method
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NUMBER OF SEQ ID NOS: 97

SOFTWARE: PatentIn version 3.1

SEQ ID NO 67

LENGTH: 12

TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
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                                                                                                       ; OTHER INFORMATION: synthetic polypeptide US-09-446-787B-67
                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-446-787B-67
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                                   Query Match
Best Local S
Matches 3
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/08/548,540
FILING DATE: 26-OCT-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/290,641
FILING DATE: 15-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/963,321
FILING DATE: 15-OCT-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 16528J-001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -08-548-540-29
                                                                                                                                                                                                                                                                                                                                                                                                                      Patent No.
                                                                                                                                                                                                                                                                                            APPLICANT: Akzo No. 6541198el N.V.
APPLICANT: Paulij, Wilhemina P.
APPLICANT: Van Kessel-Koens, Marjolijin J.
TITLE OF INVENTION: Antibodies and other binding molecules specific for hepatitis B
TITLE OF INVENTION: antigens
FILE REFERENCE: 9310-19
                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/446,787B
CURRENT FILING DATE: 2000-01-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION:
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                                h 44.9%;
Similarity 42.9%;
3; Conservative
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3; Conservative
 FHRVIKD 8
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IBM PC compatible
YSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              44.9%;
                                  Score 22; DB 4; Length 12; Pred. No. 4.8e+02; 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 22; DB 1;
Pred. No. 4.8e+02;
2; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16528J-001240US
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US-08-256-236-7 RESULT 29

Patent No. 5563121
GENERAL INFORMATION:

Application US/08256236

APPLICANT:

Janda,

Kim

APPLICANT: Wirsching, Peter APPLICANT: Ikeda, Shoji TITLE OF INVENTION: Peptide Linkage Unit

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; IMMEDIATE SOURCE:
; CLONE: 26 4 0.8
PCT-US96-09809-29
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PCT-US96-09809-29
                                                                  Query Match 44.9
Best Local Similarity 60.0
Matches 3; Conservative
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                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION UMBER: US 07/963,321
FILING DATE: 15-OCT-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 16528J-001
                                                                                                                                                                                                                                                                                               TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/548,540
FILING DATE: 26-OCT-1995
APPLICATION NUMBER: US 08/290,641
FILING DATE: 15-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                MOLECULE TYPE:
                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                                                                          LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
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                      3 HRVIK 7
6 HRVVR 10
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Stemmer, Willem F.C.
Gates, Christian M.
VENTION: Peptide Library and Screening Method
PROMENCES: 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Miller, Jeff
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          USA
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                                                                                                                                                                                                                                                                                                                                          415-326-2400
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                                                                                     44.9%;
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                                                                     Score 22; DB 5;
Pred. No. 4.8e+02,
2; Mismatches (
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                                                                                                     Length 12
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TUMBER OF SEQUENCES:

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RESULT 30
US-08-256-236-8
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/256,236
FILING DATE: 30-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/00228
FILING DATE: 11-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/819,356
FILING DATE: 09-JAN-1993
APPLICATION NUMBER: US 07/819,356
FILING DATE: 09-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Donald G. Lewis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
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LENGTH: 8 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 1-619-554-6312
INFORMATION FOR SEQ ID NO: 7:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                     APPLICANT: Janda, Kim
APPLICANT: Wirsching, Peter
APPLICANT: Ikeda, Shoji
TITLE OF INVENTION: Peptide Linkage Unit
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: Modified-site LOCATION: 5
OTHER INFORMATION: /label OTHER INFORMATION: /note-OTHER INFORMATION: group
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
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ADDRESSEE: The Scripps Research Institute
SIREET: 10666 No. 5563121th Torrey Pines Road, TPC8
                                                        COUNTRY: US
ZIP: 92037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGISTRATION NUMBER: 28 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
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                                                                                                                SSEE: The Scripps Research Institute
T: 10666 No. 5563121th Torrey Pines Road,
La Jolla
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 42.9%; Score 21; DB 1; Length 8; 80.0%; Pred. No. 3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /label= Xaa
/note= "Xaa is Leu whose carbonyl
group is replaced by PO(OH)CH2"
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GENERAL INFORMATION:
APPLICANT: Janda, Kim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: WORD Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/00228
FILING DATE: 19930111
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 1-619-554-6312 INFORMATION FOR SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 11-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/
FILING DATE: 09-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: DODAIL G. Lewis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 28,636
REFERENCE/DOCKET NUMBER: TSI
TELECOMMUNICATION INFORMATION:
TELEPHONE: 1-619-554-2937
                                                                                                                                                                                                                                                               TITLE OF INVENTION: Peptide Linkage Unit
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: Modified-site LOCATION: 5
OTHER INFORMATION: /label OTHER INFORMATION: /note=OTHER INFORMATION: group
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                                                                                                                                                                               ADDRESSEE: The Scripps Research Institute, ADDRESSEE: Office of Patent Counsel STREET: 10666 North Torrey Pines Road, TPC CITY: La Jolla STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: /label= Xaa
OTHER INFORMATION: /note= "Xaa is N-t-BOC-His"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 8 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4;
                                                                                                                                                                                                                                                                                                                 Wirsching,
Ikeda, Shoj
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  42.9%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /label= Xaa
/note= "Xaa is Leu whose carbonyl
group is replaced by PO(OH)CH2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US 07/819,356
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Gaps

PRIOR APPLICATION DATA:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 42.9%;
Best Local Similarity 80.0%;
Matches 4; Conservative
                                               FILING DATE: 09-Jan-92
ATTORNEY/AGENT INFORMATION:
NAME: Lewis, Donald G.
REGISTRATION NUMBER: 28,636
REFERENCE/DOCKET NUMBER: tsri
TELECOMMUNICATION INFORMATION:
TELEPHONE: 1-619-5542937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Janda, Kim
APPLICANT: Wirsching, Peter
APPLICANT: Ikeda, Shoji
                                                                                                                                                                                                                          SOFTWARE: WORD Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PC
FILING DATE: 19930111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 0 FILING DATE: 09-Jan-92 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                      CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 3
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STREET: 1.
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OTHER INFORMATION: /label= Xaa
OTHER INFORMATION: /note= "Xaa is Leu whose carbonyl group is
OTHER INFORMATION: replaced by PO(OH)CH2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TILE OF INVENTION: Peptide Linkage Unit
                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: AMINO ACID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Lewis, Donald G. REGISTRATION NUMBER: 2
                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: UZIP: 92037
                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: The Scripps Research Institute,
ADDRESSEE: Office of Patent Counsel
STREET: 10666 North Torrey Pines Road, TPC 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: Modified-site
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TOPOLOGY: li:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 FHRVI 6
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                                                                                                                                                                                                                                                                                                                                                                                      USA
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1-619-554-6312
OR SEQ ID NO: 8:
ARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      peptide
                                                                                                                                                       UMBER: US 07/819,356
09-Jan-92
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                                                                                        tsri279.0(PC)
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US-08-159-339A-1002
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Best Local Similarity 80.0
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                                                                             APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0300
TELEFAX: (415) 576-0300
               INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 9 amino acids
                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: UFILING DATE: 29-NOV-1CLASSIFICATION: 424
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Celis, E
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE:
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APPLICANT: Celis, Esteban
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: San Francisco
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: 9 amino acids
amino acid
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Grey, Howard M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     USA
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80.0%;
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/note= "Xaa :
replaced by !
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/note= "Xaa is N-t-BOC-His"
                                                                                                                                                                                                                                                                                                                                                     US/08/159,339A
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Pred. No. 3e+05;
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Sequence 10, Application US/08256236
Patent No. 5563121
GENERAL INFORMATION:
APPLICANT: Janda, Kim
APPLICANT: Wirsching, Peter
APPLICANT: Ikeda, Shoji
TITLE OF INVENTION: Peptide Linkage Unit
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
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US-08-256-236-10
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US-09-601-729-252
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Best Local S
Matches 3
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Best Local Similarity 44.4%;
Matches 4; Conservative
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APPLICANT: THIAM, KADER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: VERWAERDE, CLAUDIE
APPLICANT: GUILLET, JEAN GERARD
TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
TITLE OF INVENTION: THEREOF IN PHARMACEUTICAL COMPOSITIONS
FILE REFERENCE: USB-97-AU-IN
CURRENT APPLICATION NUMBER: US/09/601,729
CURRENT FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: PCT/FR99/00259
PRIOR APPLICATION NUMBER: 98 01439
PRIOR FILING DATE: 1999-02-06
NUMBER OF SEQ ID NOS: 281
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                           STREET: 10000
CITY: La Jolla
STATE: CA
STATEY: USA
COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENGTH: 9
                                  STATE: CA
COUNTRY: US
ZIP: 92037
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les 3; Conserv
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                                                                                                                     ADDRESSEE:
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LOING, ESTELLE
                                                                                                    E: The Scripps Research Institute 10666 No. 5563121th Torrey Pines Road,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Application US/09601729
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Pred. No. 3e+05;
1; Mismatches
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LOCATION: 10
; OTHER INFORMATION:
; OTHER INFORMATION:
; OTHER INFORMATION:
US-08-256-236-10
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US-08-397-633A-93
; Sequence 93, Application US/08397633A
; Patent No. 5773577
; Patent No. 5773577
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Best Local Similarity
Matches 4; Conserv
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Veri
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/397,633A
                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION: APPLICANT: Cappel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: 1-619-554-2937
TELEPAX: 1-619-554-6312
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/US
FILING DATE: 11-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/
FILING DATE: 09-JAN-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: /labs
OTHER INFORMATION: /nots
OTHER INFORMATION: group
FEATURE:
NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                  APPLICANT: Cappello, Joseph
TITLE OF INVENTION: PRODUCTS COMPRISING SUBSTRATESCAPABLE
TITLE OF INVENTION: OF ENZYMATIC CROSS-LINKING
NUMBER OF SEQUENCES: 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: TS
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 30-JUN-1994 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OLECULE TYPE: peptide
                                                                                                                                                                          ADDRESSEE: FLEHR, HOHBACH, TES
STREET: 4 Embarcadero Center,
CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Donald G. Lewis REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: FILING DATE: 30-JU
                                                                                                                                                             COUNTRY:
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linear
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/note= "Xaa is N-epsilon-t-BOC-Lys
methyl ester"
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/note= "Xaa is Leu whose carbonyl
group is replaced by PO(OH)CH2"
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ER: TSRI279.1
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Pred. No. 6.2e+02;
0; Mismatches 1
                                                                                                                                                                                                                   TEST, ALBRITTON & HERBERT er, Suite 3400
                                               Version
                                               #2
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Gaps

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Best Local Similarity 100
Matches 4; Conservative
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TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 9
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                  NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 2088
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 122:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 122, Application US/08556597 Patent No. 5877155
  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEFAX:
                                                  STRANDEDNESS:
TOPOLOGY: li
MOLECULE TYPE:
                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/556,597
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/406,330
FILING DATE: 17-MAR-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: Li...
CITY: Rochester
CTATE: New York
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                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Miller, Jonath
APPLICANT: Lyle, Vicki A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTORNEY/AGENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Rowland, Bertram REGISTRATION NUMBER: 2
                                                                                                   TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HRVI 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E: Nixon, Hargrave, Devans & Doyle LLP Clinton Square, P.O. Box 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                      linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Jonathan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42.9%; Score 21; 100.0%; Pred. No.
  42.9%;
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  Score 21;
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  BG
 <u>ب</u>
Length 10;
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PCT-USS:
; Sequence 10, Application:
; GENERAL INFORMATION:
; APPLICANT: Janda, Kim
; APPLICANT: Wirsching, Peter
; APPLICANT: Ikeda, Shoji
; APPLICANT: Ikeda, Shoji
TTTT.E OF INVENTION: Peptide |
                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 2; Conserva
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                                                                                                                   PCT-US93-00228-10
                                                                                                                                     RESULT 39
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 29
REFERENCE/DOCKET NUMBER:
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / AS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER.

PILING DATE: 21 Apr 1997

PRIOR APPLICATION NUMBER.
                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                       TOPOLOGY: 1: MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: MAERTENS, APPLICANT: STUYVER,
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                                                                                                                                                                                                             1 KFHRVIKD 8
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                                                                                                      Application PC/TUS9300228
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О.
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                                                                                                                                                                                                                                                                                                                   peptide
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                                                                                                                                                                                                                                                             42.9%;
25.0%;
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              Peptide Linkage Unit
32
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Pred. No. 6.
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CORRESPONDENCE ADDRESS:

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US-08-503-062-8
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                                                                                                                                   Sequence 8, Application US/08503062
Patent No. 5723300
GENERAL INFORMATION:
APPLICANT: Denis, Gerald V.
APPLICANT: Green, Michael R.
TITLE OF INVENTION: NUCLEAR LOCALIZED TRANSCRIPTION FACTOR
TITLE OF INVENTION: KINASES AND DIAGNOSTIC ASSAYS RELATED THERETO
                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
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INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: tsri279.0(PC)
TELECOMMUNICATION INFORMATION:
TELEPHONE: 1-619-5542937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 09-Jan-92
ATTORNEY/AGENT INFORMATION
NAME: Lewis, Donald G.
REGISTRATION NUMBER: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/819,356
FILING DATE: 09-Jan-92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: PC
FILING DATE: 19930111
                                                                                                  NUMBER OF SEQUENCES: 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: 10
OTHER INFORMATION:
OTHER INFORMATION:
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ZIP: 92037
                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
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OTHER INFORMATION:
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TOPOLOGY: 11
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OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: 10666 1
CITY: La Jolla
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: Modified-site
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COUNTRY: USA
ZIP: 02110-2804
                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: The Scripps Research Institute,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ENGTH:
                                               : Boston
                                                                                                                                                                                                                                                                                                                                                                                              4; Conservative
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AMINO ACID
       MA
USA
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10666 North Torrey Pines Road, TPC
                                                                  E: Fish & Richardson P.C. 225 Franklin Street
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /label= Xaa
/note= "Xaa is Leu whose carbonyl group
replaced by PO(OH)CH2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /label= Xaa
/note= "Xaa is N-epsilon-t-BOC-Lys methyl ester"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TION:
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Pred. No. 6.2e+02;
0; Mismatches 1; Indels
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PCT-US96-11495-8
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GENERAL INFORMATION:
APPLICANT: UNIVERSITY OF MASSACHU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                                                        CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Fasse, J. Peter
REGISTRATION NUMBER: 32,983
REFERENCE/DOCKET NUMBER: 0407
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: not releva
TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEX: 200154
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Clark, Paul T.

REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 040:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 8
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: IBM PC compatible

COMPUTER: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US96/1149
FILING DATE: 03-JUL-1996
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/503,062
FILING DATE: 10-JUL-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS
ADDRESSEE: Fish & R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
IVENTION: NUCLEAR LOCALIZED TRANSCRIPTION FACTOR
IVENTION: KINASES AND DIAGNOSTIC ASSAYS RELATED THERETO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   617/542-8906
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50.0%;
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Pred. No. 6.8e+02;
2; Mismatches 1;
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                                                                US-08-973-563A-31
 Query Match
Best Local S
Matches 3
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Best Local
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                                                                                                                                                                                                                                                                                                             FILING DATE: 07-JUN-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,273
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: PER95-02A2
                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/973,563A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS: not re.
TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION: TELEPHONE: 781-861-6240
                                                                          NAME/KEY: Region
LOCATION: 1..12
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                        NOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NPPLICANT: Roberts, F. D.
NPPLICANT: Friden, Philip M.
NITLE OF INVENTION: Anti-Fungal D-Amino Acid Histatin-Based
NITLE OF INVENTION: Peptides
NUMBER OF SEQUENCES: 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET: Two Mili
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OPOLOGY: li
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 h 42.9%;
Similarity 75.0%;
3; Conservative
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3; Conservative
                                                                                                                                                                                                    amino acid
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                                                                                                                                                                      linear
                                                                                                                                                        peptide
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                                                                            /note= "At least one amino acid
must have a D configuration."
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Score 21; DB 2; Length 12; Pred. No. 7.4e+02; 1; Mismatches 0; Indels
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6.8e+02;
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; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-973-559-31
                                                                                                                                                           RESULT 44
US-08-993-235-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 43
US-08-973-559-31
                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 3; Conserv
                                                                                                     Sequence 11, Applica Patent No. 6084064 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Patent No.
                                                                 APPLICANT: OPPENHEIM, FRANK GAPPLICANT: ROBERTS, F. DONALD
APPLICANT: XU, TAO
APPLICANT: SPACCIAPOLI, PETER
TITLE OF INVENTION: ANTIFUNGAL AND ANTIBACTERIAL PEPTIDES
FILE REFERENCE: 50032/002001
                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acid-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: PEI
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Brook David P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/481,888
FILING DATE: 07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION:
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FILING DATE: 07-JUN-1996
CLASSIFICATION: 514
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FRIDEN, PHILIP M.
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Histatin-Based Peptides
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75.0%;
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Pred. No. 7
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RESULT 45

US-09-226-666-7

; Sequence 7, Application US/09226666A
; Patent No. 6528488
; GENERAL INFORMATION:
; APPLICANT: Spacciapoli, Peter
APPLICANT: Friden, David M.
; APPLICANT: Friden, Phillip M.
; TITLE OF INVENTION: METHOD FOR TREATING CYSTIC FIBROSIS
; FILE REFERENCE: 50032/007001
; CURRENT APPLICATION NUMBER: US/09/226,666A
; CURRENT FILING DATE: 1999-01-08
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 12
TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from Homo sapiens
US-09-226-666-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/08/993,235
CURRENT FILING DATE: 1997-12-18
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 11
LENGTH: 12
TYPE: PRT
ORGANISM: Homo sapiens
US-08-993-235-11
Search completed: August 30, 2004, 10:57:09 Job time : 5.55743 secs
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Best Local Similarity 75.0
Matches 3; Conservative
                                                                                 1 KFHR 4
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6 KYHR 9
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GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 14
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Perfect score:
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 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score
 protein search, using sw model
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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Match
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Gapop 10.0 , Gapext 0.5
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KFHRVIKDF 9
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 Вg
PC4377
S65381
S1064
E61361444
E611362
E612624M
B39308
B39308
B301252
A01222
A01
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              translation elonga angiotensin precur Ig heavy chain CRD phenylalanyl-tRNA ELAV-like neuronal unidentified 5.4/3 Ig heavy chain CDR very late antigen-leucokinin VI - Ma Na+-transporting A fibrinopeptide B - xenopsin-related p xenopsin-related p calliFMRFamide 10 ribosomal protein e antigen p20e pretrpE protein - Bac angiotensin I - ho
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hemocyanin chain 3
neuropeptide Grb-A
tachykinin IV - mi
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telomeric and tetr
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   serum
 RESULT 3
A61361
bradykinin-like peptide - Bombina orientalis
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)	38.8%; Score 19; DB 2; / 100.0%; Pred. No. 2.8e+05 rvative 0; Mismatches 0	RESULT 2 \$65381 cytochrome-c oxidase (EC 1.9.3.1) chain VIb, hepatic - C;Species: Rattus norvegicus (Norway rat) C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #tex C;Accession: \$65381 R;Schaegger, H.; Noack, H.; Halangk, W.; Brandt, U.; vo Eur. J. Biochem. 230, 235-241, 1995 A;Title: Cytochrome-c oxidase in developing rat heart. A;Reference number: \$65372; MUID:95324529; PMID:7601105 A;Accession: \$65381 A;Status: preliminary A;Molecule type: protein A;Residues: 1-8 <sch> C;Keywords: oxidoreductase</sch>	Qy 1 KFHRV 5	Query Match 44.9%; Score 22; DB 2; Louis Local Similarity 80.0%; Pred. No. 3.7e+02; Matches 4; Conservative 0; Mismatches 1;	RESULT 1 PC4377 telomeric and tetraplex DNA binding protein qTBP42 VIII C;Species: Rattus norvegicus (Norway rat) C;Species: PC4377 C;Accession: PC4377 R;Sarig, G; Weisman-Shomer, P.; Fry, M. Biochem. Biophys. Res. Commun. 237, 617-623, 1997 A;Title: Telomeric and tetraplex DNA binding properties A;Reference number: PC4371; MUID:97445086; PMID:9299414 A;Accession: PC4377 A;Molecule type: protein A;Residues: 1-12 <sar> C;Comment: This protein binds either strand of the telom</sar>	ALIGNMENTS	30 14 28.6 10 2 A90345 31 14 28.6 10 2 S65387 32 14 28.6 11 2 G42762 33 14 28.6 11 2 PQ0733 34 14 28.6 11 2 PN0042 36 14 28.6 11 2 PN1376 37 14 28.6 11 2 PH1376 39 14 28.6 13 2 G44644 39 14 28.6 13 2 G44644 39 14 28.6 13 2 S36887 40 14 28.6 13 2 PN0168 41 14 28.6 13 2 PN0168 42 14 28.6 13 2 PN0168 43 14 28.6 13 2 PN0168 44 14 28.6 14 2 PQ0152 45 14 28.6 14 2 S29486 46 14 2 S29486
	Length 8; ; Indels 0; Gaps 0;	- rat (fragment) ext_change 07-May-1999 von Jagow, G. :. Enzymic properties and amino-term		Length 12; ; Indels 0; Gaps 0;	<pre>VIII - rat (fragment) #text_change 07-May-1999 ties of qTBP42: A homologue of the CA19414 telomeric DNA as well as unimolecular</pre>		angiotensin precur cytochrome-c oxida proteasome endopep unidentified 6.0/1 Rhesus blood group stathmin - mouse (T antigen variant proteasome chain 1 neurotoxin-associa ribosomal protein phosphopyruvate hypothetical prote 18K iron-sulfur prhemocyanin chain 2 GTP-binding protei H+-transporting tw

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RESULT 4
$10624
$10624
$10624
$1ipovitellin - African clawed frog
$C; Species: Xenopus laevis (African clawed frog)
$C; Date: 18-Feb-1994 #sequence_revision 10-Nov-1995 #te
$C; Date: 18-Feb-1994 #sequence_revision 10-Nov-1995 #te
$C; Accession: $10624
$R; Wallace, R.A.; Hoch, K.L.; Carnevali, O.

J. Mol. Biol. 213, 407-409, 1990

A; Title: Placement of small lipovitellin subunits with
A; Reference number: $10624; MUID: 90278951; PMID: 235227
A; Accession: $10624
                  RESULT 6
D57444
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E61308
 neuropeptide
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Chem. Pharm. Bull. 21, 1388-1391, 1973
A;Title: Active peptides on smooth muscle in the skin of Bombina orientalis Boulenger
A;Reference number: A61361; MUID:73256822; PMID:4732297
A;Accession: A61361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: protein A; Residues: 1-12 <WAL>
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Best Local S
Matches 4
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Best Local s
Matches 3
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Molecule type: protein;
Residues: 1-14 <JOL>
                                                                                                                                                                                                                                                                                                  ;Title: Structural characterization of seven different subunits;Reference number: A61308; MUID:80047238; PMID:499512;Accession: E61308
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;Date: 09-Sep-1994 #sequence_revision 09-Sep-1994 #text_change 18-Aug-2000
;Accession: A61361
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 two-spotted cricket
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                                                                                                                                                                  Score 17; DB 2;
Pred. No. 4.2e+03;
2; Mismatches 1
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Pred. No. 1.6e+03;
0; Mismatches 0;
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glycine reductase (EC 1.4.99.-) sulfhydryl protein C, beta chain - Clostrid: C;Species: Clostridium sticklandii
C;Date: 19-Jun-1992 #sequence_revision 19-Jun-1992 #text_change 15-Aug-1997 C;Accession: B39308
R;Stadtman, T.C.; Davis, J.N.
J. Biol. Chem. 266, 22147-22153, 1991
J,Title: Glycine reductase protein C. Properties and characterization of its A;Reference number: A39308; MUID:92042141; PMID:1939235
                                                                                                                                                                                                                                                                                                                                                                      RESULT
B39308
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ECLQ4M
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                                                                                                   A; Descriptic C; Keywords:
                                                                                                                                      A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <STA>
C;Function:
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A; Residues: 1-10 <SCH>
C; Superfamily: tachykinin
C; Keywords: amidated carboxyl end; neuropeptide; tachykinin
F; 10/Modified site: amidated carboxyl end (Arg) #status expe
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A;Title: Locustatachykinin III and IV: two additional insect neuropeptides wi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N;Alternate names: locustatachykinin IV
C;Species: Locusta migratoria (migratory locust)
C;Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 08-Dec-1995
C;Accession: B60073
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J. Biol. Chem. 270, 21103-21108, 1995
A;Title: A family of neuropeptides that inhibit juvenile
A;Reference number: A57444; MUID:95403341; PMID:7673141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: protein A; Residues: 1-9 < LOR>
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                                                                                                      ;Description: glycine reductase ;Keywords: ATP; oxidoreductase
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Pred. No.
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Pred. No. 4.7e+03
0; Mismatches
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2.8e+05;
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A;Gene: tufB
C;Superfamily:
C;Keywords: GTP
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R;Sarig, G.; V
                                                                                                                                                                                        R;Hughes, M.A.; Jones, D.S.
Nucleic Acids Res. 16, 7193, 1988
A;Title: A fragment of the Pseudomonas aeruginosa genome A;Reference number: S01222; MUID:88303352; PMID:3136442 A;Accession: S01222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                telomeric and tetraplex DNA binding protein qTBP42 IV - rat C;Species: Rattus norvegicus (Norway rat)
C;Date: 28-Oct-1997 #sequence_revision 28-Oct-1997 #text_cha: C;Accession: PC4374
                                                                                                                                                                                                                                                                                          translation elongation factor EF-Tu - Pseudomonas aeruginosa (fragment) C;Species: Pseudomonas aeruginosa C;Species: Pseudomonas aeruginosa C;Date: 07-Jun-1990 #sequence_revision 07-Jun-1990 #text_change 26-Aug-1999 C;Accession: S01222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Sarig, G.; Weisman-Shomer, P.; Fry, M.
Biochem. Biophys. Res. Commun. 237, 617-623, 1997
A;Title: Telomeric and tetraplex DNA binding properties
A;Reference number: PC4371; MUID:97445086; PMID:9299414
                                                                                                                                       A;Molecule type: DNA
A;Residues: 1-12 <HU
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A;Molecule type: nucleic acid
A;Residues: 1-10 <JAC>
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A; Accession: S36849
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C;Species: Mus musculus (house mouse)
C;Date: 06-Jan-1994 #sequence_revision 01-Dec-1995 #text_change 05-Nov-1999
                                                                                                  C; Genetics
                                                                                                                   A; Cross-references:
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Pred. No. 4.7e+03;
4; Mismatches 3
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phenylalanyl-tRNA synthetase operon leader peptide [imported] - C;Species: Yersinia pestis
C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change | C;Accession: AF0296
R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, deno-Tarraga, A.M.; Chillingworth, T.; Cromin, A.; Davies, R.M.; il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Nature 413, 523-527, 2001
A;Title: Genome sequence of Yersinia pestis, the causative agent A;Accession: AF0296
A;Sterence number: AB0001; MUID:21470413; PMID:11586360
A;Sterence number: AB0001; MUID:21470413; PMID:11586360
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AF0296
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A;Residues: 1-14 <SKE>
C;Superfamily: Serpin
C;Keywords: blood pressure control; hormone; vasoconstrictor
F;1-10/Product: angiotensin I #status experimental <AN1>
F;1-8/Product: angiotensin II #status experimental <AN2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              angiotensin precursor - horse (fragment)
C;Species: Equus caballus (domestic horse)
C;Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 15-Sep-2003
C;Accession: A92775; A01250
R;Skeggs Jr., L.T.; Kahn, J.R.; Lentz, K.; Shumway, N.P.
J. Exp. Med. 106, 439-453, 1957
A;Reference number: A92775
A;Recession: A92775
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A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and job, Reference number: PT0222; MUID:91108337; PMID:1899102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ig heavy chain CRD3 region (clone 2-115A) - C;Species: Homo sapiens (man) C;Date: 30-Sep-1993 #sequence_revision 30-Se C;Accession: PT0254
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A; Residues: 1-14 < YAM>
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                                                                              , R.W.; Holden, M.T.G.; Prentice, Davies, R.M.; Davis, P.; Dougan, Stevens, K.; Whitehead, S.; Barre
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RESULT 17
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A;Residues: 1-14 <KUR>
A;Cross-references: GB:AL590842; PIDN:CAC91234.1; PID:g15980423; GSPDB:GN00175
C;Genetics:
                                                                                                                                                                                                                                                             R; Komatsu, S.; Kajiwara, H.; Hirano, H. Theor. Appl. Genet. 86, 935-942, 1993 A; Title: A rice protein library; a data A; Reference number: PQ0696 A; Accession: PQ0730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Molecule type: mRNA
A;Residues: 1-11 <SEK>
A;Residues: 1-11 <SEK>
A;Cross-references: GB:S73887; NID:g688242; PIDN:AAD14142.1; PID:g4261842
A;Cross-references: GB:S73887; NID:g688242; PIDN:AAD14142.1; PID:g4261842
C;Comment: This abnormal peptide is expressed. For the long splice form, see PIR:I38726.
                                                                       В
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A;Molecule type: protein
A;Residues: 1-12 <KOM>
                                                                                                                                                                                                                                                                                                                                                   unidentified 5.4/35K protein [imported] - C; Species: Oryza sativa (rice) C; Date: 20-Apr-2000 #sequence_revision 20-C; Accession: PQ0730
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A;Cross-references: GDB:141875; OMIM:168360
A;Map position: 1p36-1p36
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Pred. No. 6.6e+03;
0; Mismatches 3;
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Pred. No. 8.9e+03;
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Ig heavy chain CDR3 region (clone 1-112) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_chan
C;Accession: PT0228
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin
A;Reference number: PT0222; MUID:91108337; PMID:1899102
A;Accession: PT0228
A;Accession: PT0228
                                                                                                                                          R;Holman, G.M.; Cook, B.J.; Nachman, R.J.
Comp. Biochem. Physiol. C 88, 27-30, 1987

A;Title: Isolation, primary structure, and synthesis of leucokinins V and VI: myotropic I A;Reference number: JS0315

A;Recession: JS0316

A;Recession: JS0316

A;Residues: 1-8 <HOL>
C;Comment: Leucokinins, a family of cephalomyotropic peptides, stimulate contractile act: C;Keywords: amidated carboxyl end; cephalomyotropic peptide; pyroglutamic acid F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental F;8/Modified site: amidated carboxyl end (Gly) #status experimental
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N;Alternate names: VLA-1 alpha chain
C;Species: Homo sapiens (man)
C;Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_
C;Accession: A28018
R;Takada, Y.; Strominger, J.L.; Hemler, M.E.
Proc. Natl. Acad. Sci. U.S.A. 84, 3239-3243, 1987
A;Title: The very late antigen family of heterodimers is A;Reference number: A94151; MUID:87204112; PMID:3033641
A;Accession: A28018
                                                                                                                                                                                                                                                                                                                                                   leucokinin VI - Madeira cockroach
C;Species: Leucophaea maderae (Madeira
C;Date: 07-Sep-1990 #sequence_revision
C;Accession: JS0316
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A;Residues: 1-14 <TAK>
C;Keywords: duplication; heterodimer; membrane protein
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A; Residues: 1-12 < YAM>
A; Experimental source: B lymphocyte
C; Keywords: heterotetramer; immunoglobulin
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R;Carraway, R.E.; Cochrane, D.E.; Mitra, S.P.
Regul. Pept. 22, 303-314, 1988
A;Title: Xenopsin-related peptide generated in avian gastric extracts.
A;Reference number: JS0302; MUID:89042995; PMID:2460902
A;Accession: JS0302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Nakamura, S.; Takenaka, O.; Takahashi, K. J. Biochem. 94, 1973-1978, 1983
A;Title: Fibrinopeptides A and B of baboons A;Reference number: A91973; MUID:84161822; PA;Accession: E28854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eur. J. Biochem. 223, 275-283, 1994
A; Title: Purification of ATP synthase from A; Reference number: S45648; MUID: 94307271; A; Accession: S66296
                                                                                                                                                                                                                                                 N;Contains: xenopsin-related peptide 1
C;Species: Meleagris gallopavo (common turkey)
C;Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 18-Aug-2000
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C;Species: Acetobacterium woodii
C;Date: 19-Mar-1997 #sequence_revision 06-Jun-1997 #text_change 07-May-1999
                                                                                 A;Residues: 1-9 <CAR>
C;Comment: The peptides are present within several tissues primarily in C;Superfamily: yeast coatomer complex alpha chain; WD repeat homology
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A; Residues: 1-9 <
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C;Species: Papio hamadryas (hamadryas baboon)
C;Date: 19-May-1989 #sequence_revision 19-May
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                                                                                                                      A;Molecule type: protein
A;Residues: 1-9 <CAR>
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                                                                                                                                                                                                                                                                                                        xenopsin-related peptide 2 - turkey
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Best Local S
Matches 2
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Matches 3
                                                     Keywords: neuropeptide
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Pred. No. 2.8e
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2.8e+05;
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xenopsin-related peptide 2 - rat
xenopsin-related peptide 1
N;Contains: xenopsin-related peptide 1
C;Species: Rattus norvegicus (Norway rat)
C;Date: 10-Nov-1992 #sequence_revision 10-Nov-1992 #text_change
                                     ribosomal protein RL41, mitochondrial [validated] - C;Species: Rattus norvegicus (Norway rat) C;Date: 25-Feb-1998 #sequence_revision 13-Mar-1998 #C;Accession: S78420
                                                                                                                                                                                                                                                                                                             A;Molecule type: protein
A;Residues: 1-9 <DUV>
C;Keywords: amidated carboxyl end; neuropeptide
F;9/Modified site: amidated carboxyl end (Phe) #status experimental
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C;Species: Calliphora vomitoria
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 17-Mar-1999
C;Accession: A44787
R;Goldschmidt-Reisin, S.; Graack, H.R. submitted to the Protein Sequence Database, February 1998
                                                                                                                                                                                                                                                                                                                                                                                                      A; Title: Isolation, structure, and activity of -Phe-Met A; Reference number: A41978; MUID: 92196111; PMID: 1549595 A; Accession: A44787
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Note: the authors purified these peptides from pepsin-treated extracts of (C;Comment: Xenopsin and xenopsin-related peptides are similar to neurotensin C;Superfamily: yeast coatomer complex alpha chain; WD repeat homology
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A;Title: Isolation and structures of xenopsin-related peptides
A;Reference number: A60320; MUID:91018491; PMID:2217904
A;Accession: A60320
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29, 229-239, 1990
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                                                    #text_change 21-Jul-2000
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R;Takahashi, K.; Kishimoto, S.; Ohori, K.; Yoshizawa, H.; Machida, A.; Ohnuma, J. Immunol. 147, 3156-3160, 1991
A;Title: Molecular heterogeneity of e antigen polypeptides in sera from carries A;Reference number: A46453; MUID:92013147; PMID:1717588
A;Accession: B46453
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A;Molecule type: protein
A;Residues: 1-9 <GOL>
A;Note: the protein is desi
C;Keywords: mitochondrion;
                             RESULT 28
S65432
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A;Accession: I40032
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A;Note: sequence extracted from NCBI backbone (NCBIP:60243)
F;1-10/Domain: signal sequence (fragment) #status predicted
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N;Contains: e antigen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;Variety: subtype adr
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se names: HBe antigen precursor
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Comp. Biochem. Physiol. B 103, 563-568, 1992
A;Title: Purification of a novel heterodimer from shark (Carcharhin A;Reference number: A56899, MUID:93092592; PMID:1458832
A;Accession: B56899
A;Status.
                                                                                                                                                                                                                                                                                                                                                                                  RESULT 30
A90345
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A; Note:
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C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change
C;Accession: S65432
R;Wijffels, G.; Fitzgerald, C.; Gough, J.; Riding, G.; Elvin, C.
Eur. J. Biochem. 237, 414-423, 1996
A;Title: Cloning and characterisation of angiotensin-converting
A;Reference number: S65431; MUID:96215437; PMID:8647080
                                                                                                                                                                                                                        C;Accession: A90345; A01250
R;Elliott, D.F.; Peart, W.S.
Biochem. J. 65, 246-254, 1957
A;Title: The amino acid sequence
A;Reference number: A90345
A;Accession: A90345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     serum heterodimer, 24K chain - sandbar shark (fragment)
C;Species: Carcharhinus plumbeus (sandbar shark)
C;Date: 11-Aug-1995 #sequence_revision 11-Aug-1995 #text_change 20-Jun-2000
C;Accession: B56899
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B56899
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A;Molecule type: protein
A;Residues: 1-10 <WIJ>
                                                                                                                                A;Residues: 1-10 <ELL>
C;Keywords: blood pressure control; hormone; vasoconstrictor
F;1-10/Product: angiotensin I #status experimental <AN1>
F;1-8/Product: angiotensin II #status experimental <AN2>
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A;Accession: S65432
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A;Residues: 1-10 <VAZ>
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C;Accession: PQ0733
R;Komatsu, S.; Kajiwara, H.; Hirano, H.
Theor. Appl. Genet. 86, 935-942, 1993
A;Title: A rice protein library; a data
A;Reference number: PQ0696
A;Accession: PQ0733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             proteasome endopeptidase complex (EC 3.4.25.1) subunit 13 - bovine (fragment) C; Species: Bos primigenius taurus (cattle) C; Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 17-Feb-2003 C; Accession: G42762 R; Dick, L.R.; Moomaw, C.R.; Pramanik, B.C.; DeMartino, G.N.; Slaughter, C.A. Biochemistry 31, 7347-7355, 1992 A; Title: Identification and localization of a cysteinyl residue critical for A; Reference number: A42762; MUID:92378961; PMID:1510924 A; Accession: G42762
                                                                                                                                                                                                                               unidentified 6.0/15K protein [imported] - rice (fragment) C;Species: Oryza sativa (rice) C;Species: Oryza sativa (rice) C;Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_
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PQ0733
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R;Schaegger, H.; Noack, H.; Halangk, W.; Brandt, U.; von Jagow, G.
Eur. J. Biochem. 230, 235-241, 1995
A;Title: Cytochrome-c oxidase in developing rat heart. Enzymic properties and A;Reference number: S65372; MUID:95324529; PMID:7601105
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A;Molecule type: protein
A;Residues: 1-10 <SC2>
C;Keywords: cardiac muscle; heart; oxidoreductase
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A;Accession: S65387
A;Status: preliminary
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Query Match
Best Local Similarity
                                                                                                Status: preliminary
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Best Local
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1.3e+04;
   DB 2;
1.3e+04;
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                   Length 11;
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RESULT 36
PH1376

T antigen variant K-3 - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 11-May-2000
C;Accession: PH1376
R;Lill, N.L.; Judith Tevethia, M.; Hendrickson, W.G.; Tevethia, S.S.
J. Exp. Med. 176, 449-457, 1992
A;Title: Cytotoxic T lymphocytes (CTL) against a transforming gene product s A;Reference number: PH1373; MUID:92364547; PMID:1380062
A;Accession: PH1376
                                                                                                                                                                                                                                                                                                                                                                             A; Molecule type: protein
A; Residues: 1-11 < KAT>
A; Experimental source: neuroblastoma cell
C; Comment: The molecular mass is 17,500 au
C; Keywords: brain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           stathmin - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 29-Oct-1997 #sequence_revisio
C;Accession: PN0042
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kawasaki Igakkaishi 22, 245-28
A;Title: Analysis of proteins
A;Reference number: PN0041
A;Accession: PN0042
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C;Date: 06-Sep-1996 #sequence_revision 06-Sep-1996 #text_change 21-Jul-2000
C;Accession: I54193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: GDB:229957; OMIM:111700 A;Map position: 1p36.2-1p34
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C;Genetics:
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A; Residues: 1-11 < RES>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Kato, H.
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omo sapiens (man)
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28.6%;
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1; Mismatches
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proteasome chain N; Alternate names C; Species: Rattus C; Date: 30-Sep-199 C; Accession: S0900
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S09082
                                                                                          RESULT 39
S36887
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A;Molecule type: mRNA
A;Residues: 1-11 <LIL>
ribosomal protein S14 - Mycobacterium bovis (fragments)
C;Species: Mycobacterium bovis
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #tex
C;Accession: S36887
R;Ohara, N.; Kimura, M.; Higashi, Y.; Yamada, T.
FEBS Lett. 331, 9-14, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C;Accession: S09082
R;Lilley, K.S.; Davison, M.D.; Rivett, A.J.
FEBS Lett. 262, 327-329, 1990
A;Title: N-terminal sequence similarities between components of A;Reference number: S09082; MUID:90242957; PMID:2335214
A;Accession: S09082
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A; Residues: 1-12 <LIL>
C; Superfamily: multicatalytic endopeptidase complex chain
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A;Title: Clostridium botulinum types A, B,
A;Reference number: A44644; MUID:92143938;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             neurotoxin-associated protein type B Hn+C;Species: Clostridium botulinum
C;Date: 07-Oct-1994 #sequence_revision 07
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A,Molecule type: protein
A,Residues: 1-13 <SOM>
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;Alternate names: multicatalytic proteinase chain
;Species: Rattus norvegicus (Norway rat)
;Date: 30-Sep-1991 #sequence_revision 30-Sep-1991
;Accession: S09082
;Lillav v
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Best Local S
Matches 1
                                                                                                                                                                                                                                                                          ;Note: sequence extracted from NCBI backbone;Keywords: hemagglutinin
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Best Local (
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Pred. No. 1.5e-
3; Mismatches
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Pred. No. 1.4e+04;
0; Mismatches 1
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1.3e+04;
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phosphopyruvate hydratase (EC 4.2.1.11) - fungus (Fusarium sporotrichioides) (C;Species: Fusarium sporotrichioides C;Species: Fusarium sporotrichioides C;Date: 05-Aug-1994 #sequence_revision 05-Aug-1994 #text_change 11-Nov-1994 C;Accession: PN0168 C;Accession: PN0168 R;Fukaya, N.; Chow, L.P.; Sugiura, Y.; Tsugita, A.; Ueno, Y.; Tabuchi, K. submitted to JIPID, May 1994 A;Description: Two dimensional polyacrylamide gel electrophoresis of Fusarium A:Deference number: PN0160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Title: Isolation and amino acid sequence of the 30S ribosomal protein S19 from Mycobact A;Reference number: S36887; MUID:94009653; PMID:8405418 A;Accession: S36887
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PN0168
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A;Molecule type: protein
A;Residues: 1-2;3-12;13 <OHA>
C;Keywords: protein biosynthesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Escherichia coli
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 14-Sep-2001
C;Accession: H85575
C;Accession: H85575
R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, R;Perna, N.T.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, Nature 409, 529-533, 2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT
H85575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Residues: 1-13 <FUK>
C;Keywords: carbon-oxygen
RESULT 42
PQ0152
18K iron-sulfur protein - Chlamydomonas reinhardtii chloroplast
                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: DNA
A; Residues: 1-13 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Reference number: A85480; A; Accession: H85575
                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Title: Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 A;Reference number: A85480; MUID:21074935; PMID:11206551
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hypothetical protein Z0899 [imported] - Escherichia coli (strain O157:H7, substrain C;Species: Escherichia coli
                                                                                                                                                                                                                                                                                                                                                                                                              A; Status: preliminary
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Best Local Similarity
Matches 1; Conserv
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Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                                                                                          Cross-references: GB:AE005174; NID:g12513665; PIDN:AAG55068.1; GSPDB:GN00145; UWGP:Z08; Experimental source: strain O157:H7, substrain EDL933
                                                                                                                                                                                                  Matches
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4; Mismatches 0
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Potamousis,
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R;Volknandt, W.; Pevsner, J.; Elferink, L.A.; Scheller, R.H.
FEBS Lett. 317, 53-56, 1993
A;Title: Association of three small GTP-binding proteins with cholinergic synaptic vesic A;Reference number: S29485; MUID:93154521; PMID:8428634
A;Accession: S29486
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-14 <VOL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N;Alternate names: frxB homolog
C;Species: chloroplast Chlamydomonas reinhardtii
C;Date: 23-Nov-1991 #sequence_revision 23-Nov-1991 #text_change 30-Sep-1993
C;Accession: PQ0152
R;Wu, M.; Nie, Z.Q.; Yang, J.
Plant Cell 1, 551-557, 1989
A;Title: The 18-KD protein that binds to the chloroplast DNA replicative origin is A;Reference number: PQ0152; MUID:92404720; PMID:2562513
A;Accession: PQ0152
                                                                                                                                                                                                                                                                              S29486
GTP-binding protein o-rab3 - electric ray (Discopyge ommata) (fragment)
C;Species: Discopyge ommata
C;Date: 22-Nov-1993 #sequence_revision 27-Feb-1997 #text_change 13-Mar-1997
C;Accession: S29486
R;Volknandt, W.; Peysner, J.; Elferink, L.A.; Scheller, R.H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Jolles, J.; Jolles, P.; Lamy, J.; Lamy, J.
FEBS Lett. 106, 289-291, 1979
A;Title: Structural characterization of seven different subunits in Androctonus austral A;Reference number: A61308; MUID:80047238; PMID:499512
A;Accession: A61308
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Genome: chloroplast C;Keywords: chloroplast
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A;Residues: 1-14 <JOL>
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C;Species: Androctonus australis (Sahara scorpion)
C;Date: 17-Jul-1994 #sequence_revision 17-Jul-1994
C;Accession: A61308
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13
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Pred. No. 1.6e+04;
1; Mismatches 1
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Pred. No. 1.6e+04
2; Mismatches
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RESULT 45

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A;Reference number: A33160
A;Accession: G33160
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-14 <GOD>
C;Keywords: hydrolase
                                                                                                                                                                                              R;Godinot, C.

R;Godinot, C.

submitted to the Protein Sequence Database,

**Peference number: A33160
                                                                                                                                                                                                                                                              H+-transporting two-sector ATPase (EC 3.6.3.14) 9K chain - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 08-Mar-1991 #sequence_revision 08-Mar-1991 #text_change 03-Jun-2002
C;Accession: G33160
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                                                                Matches
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11 KFGR 14
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                                                              Similarity
3; Conserv
                                                                 Conservative
                                                                                28.6%;
                                                              Score 14; DB:
Pred. No. 1.6e
0; Mismatches
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Search completed: August 30, 2004, 10:58:46 Job time: 5.70608 secs

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Result
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seq length: 14
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*

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7: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

9: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

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16: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*

17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*

18: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*

19: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*

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10: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*

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CUS-09-851-138-204

US-09-984-056-62

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10	10	14	10	14	12	15	14	14	12	12	<u>1</u> 4	14	14	14	φ	9	9	9	9	9	14	<u>1</u> 4	14	14	14	14	16	16	14
-09-833-039-11	-09-876-904A-5	-10-109-171-13	53	-10-190-264	-10-014-340-2	-10-245-871-8	-10-044-539-8	-10-044-692-8	-10-325-810-8	S-10-253-286-87	-10-189-437	S-10-189-437-7	S-10-105-232-2	S-10-105-232-7	-09-984-057-	-984-056-	-09-834-765-66	-09-834-765-47	-09-834-765-41	9-834-765-13	-10-189-437-25	-10-105-232-2	-10-077-106-2	0-077-106-2	-10-211-207-2	-10-211-207-2	-10-601-953-6	-10-6	0-293-822-2
equence 114, Ap	equence 500, Ap	equence 135, Ap	e H	equence 2, Appl	equence 28, App	equence 874, Ap	equence 85, App	equence 85, App	equence 85, App	equence 874	equence 253, Ap	equence 72,	equence 266, Ap	equence 72,	equence 72,	e 72,	equence 666,	equence 477,	equence 419	equence 139, App	equence 257, Ap	equence 270, Ap	equence 24, App	equence 23,	equence 24, App	equence 23, App	equence 65, App	Sequence 64, Appl	equence 22,

ALIGNMENTS

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RESULT 1
US-10-447-161-84
US-10-447-161-84
Jequence 84, Application US/10447161
Jequence 84, Application US/10447161
Jepulcation No. US20040023314A1
Jeneral Invorwation
APPLICANTON
APPLICANTON
CURRENT APPLICANTON NUMBER: US/10/447,161
CURRENT FILING DATE: 2003-05-28
JENIER REPERENCE: HO-90284US1
CURRENT FILING DATE: 2003-05-28
JENIER OF SEQ ID NOS: 148
SOFTWARE: PATE: 0007-05-28
JENIER OF SEQ ID NOS: 148
SOFTWARE: PAT
JENIER: PAT
JENIER: PAT
JORGANISM: Artificial Sequence
FEARURE:
OTHER INFORMATION: Synthetic Peptide
US-10-447-161-94

Guery Match
Best Local Similarity 100.0%; Score 49; DB 16; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e-06; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e-06; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps
OY
JENIER INFORMATION: Synthetic Pate 100.0%; Sequence 1, Application US/10788016
JESULT 2
US-10-788-016-1
JEGURTA LINCONATION: DESCRIPTION: DESCRIPTION:
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FILE REFERENCE: 3190-049

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RESULT 4
US-10-601-953-76
US-10-601-953-76; Sequence 76, Application US/10601953; Publication No. US20040077540A1; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-405-339-47
                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/10/405,339
CURRENT FILING DATE: 2003-04-01
PRIOR APPLICATION NUMBER: US 60/369,568
PRIOR FILING DATE: 2002-04-01
NUMBER OF SEQ ID NOS: 60
SOFTWARE: PatentIn version 3.1
SEQ ID NO 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            S-10-405-339-47
Sequence 47, Application US/10405339
Publication No. US20030190364A1
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local (
APPLICANT: Quay, Steven C.
TITLE OF INVENTION: Compositions And Methods For Mo
TITLE OF INVENTION: Junctional Adhesion Molecules
TITLE OF INVENTION: Therapeutic Compounds
FILE REFERENCE: 02-03US
CURRENT APPLICATION NUMBER: US/10/601,953
CURRENT FILING DATE: 2003-06-24
PRIOR APPLICATION NUMBER: 60/392,512
PRIOR FILING DATE: 2002-06-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/10/788,016
CURRENT FILING DATE: 2004-02-26
PRIOR APPLICATION NUMBER: PCT/JP02/08641
PRIOR FILING DATE: 2002-08-28
PRIOR APPLICATION NUMBER: JP P2001-260046
PRIOR FILING DATE: 2001-08-29
PRIOR FILING DATE: 2001-08-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Panitch, Alyssa
APPLICANT: Seal, Brandon
TITLE OF INVENTION: Biological Affinity Based Delivery Systems
FILE REFERENCE: 9138-0079US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
OTHER INFORMATION: Synthetic peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ENGTH: 14
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                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                           59.2%;
75.0%;
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Pred. No. 1.2e+06;
Nismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                               14; Length 14
                                                                                                                               Modulating Physiology Of Epithelial es For Enhanced Mucosal Delivery Of
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US-09-851-138-204
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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-601-953-77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: Synthetic construct US-10-601-953-76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 5
US-10-601-953-77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Quay, Steven C.
TITLE OF INVENTION: Compositions And Methods For Modulating Physiology Of Epithelial TITLE OF INVENTION: Junctional Adhesion Molecules For Enhanced Mucosal Delivery Of TITLE OF INVENTION: Therapeutic Compounds
FILE REFERENCE: 02-03US
CURRENT APPLICATION NUMBER: US/10/601,953
CURRENT FILING DATE: 2003-06-24
PRIOR APPLICATION NUMBER: 60/392,512
PRIOR APPLICATION NUMBER: 60/392,512
PRIOR FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 900
SOFTWARE: PatentIn version 3.2
SEQ ID NO 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 4
                                                                                                                                                                                                                                                                               Sequence 204, Application US/09851138
Publication No. US20020183508A1
GENERAL INFORMATION:
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 76
LENGTH: 12
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity 57.
                                                                                                                  NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHIT
STREET: P.O. BOX 4433
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                       STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AI
                                                                                                                                                                                                                                                                 APPLICANT: MAERTENS, GEERT
                                                                                                                                                                                                                                                                                                                                                                                                                                           3 HRVIKDF 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4; Conservative
                                                                                      CITY: HOUSTON STATE: TEXAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Application US/10601953
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57.1%;
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Pred. No. 1.
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Pred. No. 1.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:

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RESULT 7
US-09-984-056-61
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                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR FILING DATE: 1998-09-04
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 2001-03-27
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Best Local S
Matches 4
                                                                 Query Match
Best Local S
Matches 5
                                                                                                                                                                                                             SEQ ID NO 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 61,
                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: BOGOCH, ELENORE S.
TITLE OF INVENTION: ANTHRAX AND SMALL POX REPLIKINS AND METHODS OF USE FILE REFERENCE: 09425-46903
CURRENT APPLICATION NUMBER: US/09/984,056
CURRENT FILING DATE: 2001-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               atent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: BOGOCH, SAMUEL
APPLICANT: BOGOCH, ELENOI
                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 103 SOFTWARE: PatentIn 2.1
                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: 08/198,139
PRIOR FILING DATE: 1994-02-17
                                                                                                                                                     LENGTH: 9
TYPE: PRT
ORGANISM: Polyoma virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 204:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity 50.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/09/851,138
PILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 204:
                                                                Similarity
5; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US20020120106A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KFHRVIKD 8
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KQHRELKD 8
                             KFHRVIKD 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: KAMMERER, PATRICIA A. REGISTRATION NUMBER: 29,775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Application US/09984056
                                                                   Conservative
                                                                                   62.5%;
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Pred. No. 1.5e+02;
3; Mismatches 1
                                                                 Score 26; DB 9;
Pred. No. 1.2e+06;
1; Mismatches 2
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                                                                                                    Length 9;
                                                                    Indels
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GENERAL INFORMATION:

APPLICANT: BOGOCH, SAMUEL

APPLICANT: BOGOCH, ELENORE S.

TITLE OF INVENTION: ANTHRAX AND SMALL POX REPLIKINS AND METHODS OF USE

FILE REFERENCE: 09425-46903

CURRENT APPLICATION NUMBER: US/09/984,056

CURRENT FILING DATE: 2001-10-26

PRIOR APPLICATION NUMBER: 60/303,396

PRIOR APPLICATION NUMBER: 60/303,396

PRIOR APPLICATION NUMBER: 60/278,761

PRIOR APPLICATION NUMBER: 09/146,755

PRIOR APPLICATION NUMBER: 09/146,755

PRIOR APPLICATION NUMBER: 09/146,755

PRIOR APPLICATION NUMBER: 09/817,144

PRIOR APPLICATION NUMBER: 09/817,144

PRIOR APPLICATION NUMBER: 09/187,144

PRIOR APPLICATION NUMBER: 08/198,139

PRIOR APPLICATION NUMBER: 08/198,139
                                                                                                                                                                                                                                                                                          APPLICANT: BOGOCH, SAMUEL
APPLICANT: BOGOCH, ELENCRE S.
TITLE OF INVENTION: REPLIKINS AND METHODS OF IDENTIFYING
TITLE OF INVENTION: REPLIKIN-CONTAINING SEQUENCES
FILE REFERENCE: 09425-46902
CURRENT APPLICATION NUMBER: US/09/984,057
CURRENT FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 1998-09-04
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 2001-03-27
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Query Match
Best Local Similarity
Marches 5; Conserve
                                                                                                          ; ORGANISM: Polyoma virus US-09-984-057-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ϋ́
                                                                                                                                                                        SOFTWARE: Pa
SEQ ID NO 61
LENGTH: 9
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Best Local S
Matches 5
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NUMBER OF SEQ ID NOS: 103
SOFTWARE: PatentIn 2.1
SEQ ID NO 62
LENGTH: 9
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent No. US200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 67
Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATI
                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 08/198,139
PRIOR FILING DATE: 1994-02-17
NUMBER OF SEQ ID NOS: 90
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No. US2002
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62.5%;
                   Score 26; DB 9;
Pred. No. 1.2e+06;
1; Mismatches 2
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Pred. No. 1
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1 KFHRVIKD 8

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; TYPE: PRT; ORGANISM: Polyoma virus
US-10-105-232-61
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JS-10-105-232-61

Sequence 61, Application US/10105232

Publication No. US20030180328A1

Publication No. US20030180328A1
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CURRENT FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR FILING DATE: 1998-09-04
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 09/817,144
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Query Match
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                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR FILING DATE: 1998-09-04
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR FILING DATE: 2001-03-27
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PRIOR FILING DATE: 1994-02-17
NUMBER OF SEQ ID NOS: 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/10/105,232 CURRENT FILING DATE: 2002-03-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: BOGOCH, ELENORE S.
TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS
TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS
FILE REFERENCE: 09425-46904
                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 08/PRIOR FILING DATE: 1994-02-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: BOGOCH
APPLICANT: BOGOC
                                                                                                                                                                                           NUMBER OF SEQ ID NOS: 535
                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/303,396 PRIOR FILING DATE: 2001-07-09
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APPLICANT: BOGOCH
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ITLE OF INVENTION: REPLIKINS AND METHODS OF IDENTIFYING ITLE OF INVENTION: REPLIKIN-CONTAINING SEQUENCES ILLE REFERENCE: 09425-46902
                                                                                                                      ENGTH:
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Similarity 62.5%;
5; Conservative
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S20020151677A1
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 53.1%;
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 Score 26;
 DB 14;
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RESULT 12
US-10-105-232-62
; Sequence 62, Application US/10105232
; Publication No. US20030180328A1
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US-10-189-437-61
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; ORGANISM: Polyoma virus
US-10-189-437-61
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CURRENT FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR FILING DATE: 1998-09-04
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 08/198,139
PRIOR FILING DATE: 1994-02-17
                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/10/189,437
CURRENT FILING DATE: 2002-07-08
PRIOR APPLICATION NUMBER: 10/105,232
PRIOR FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: 09/984,057
PRIOR APPLICATION NUMBER: 09/984,057
PRIOR FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
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APPLICANT: BOGOCH,
APPLICANT: BOGOCH,
                                                                                     SOFTWARE: P
SEQ ID NO 61
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Matches 5; Conservative
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                                                                                                            PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 729
SOFTWARE: Patentin 2.1
                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: BOGOCH, ELENORE S.
TITLE OF INVENTION: REPLIKIN PEPTIDES AND ANTIBODIES THEREFORE
FILE REFERENCE: 09425/46905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 535
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TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS
TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS
FILE REFERENCE: 09425-46904
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Local Similarity 62.5%;
les 5; Conservativo
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Pred. No. 1.2e+06;
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1; Mismatches 2; Indels
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; ORGANISM: Homo sapiens
US-10-293-822-14
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TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
FILE REFERENCE: 06501-043001
CURRENT APPLICATION NUMBER: US/10/293,822
CURRENT FILING DATE: 2002-11-12
PRIOR APPLICATION NUMBER: US/09/418,780
PRIOR FILING DATE: 1999-10-15
PRIOR FILING DATE: 1998-01-15
PRIOR FILING DATE: 1998-04-17
PRIOR APPLICATION NUMBER: US/1998/01782
PRIOR FILING DATE: 1998-04-17
PRIOR APPLICATION NUMBER: JAPAN 9/116402
PRIOR FILING DATE: 1997-04-18
NUMBER OF SEQ ID NOS: 28
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US-10-189-437-62
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CURRENT FILING DATE: 2002-07-08
PRIOR APPLICATION NUMBER: 10/105,232
PRIOR APPLICATION NUMBER: 10/105,232
PRIOR APPLICATION NUMBER: 09/984,057
PRIOR FILING DATE: 2001-10-26
PRIOR FILING DATE: 2001-0-26
PRIOR PPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 729
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       Query Match 51.0%;
Best Local Similarity 50.0%;
Matches 3; Conservative
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GENERAL INFORMATION:
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Best Local
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                                                                                                                                                       SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 14
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                                                                                                                     LENGTH: 11
TYPE: PRT
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TLE OF INVENTION: REPLIKIN PEPTIDES AND ANTIBODIES THEREFORE
LE REFERENCE: 09425/46905
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1 KQHRELKD 8
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Similarity 62.5%;
S; Conservative
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1; Mismatches
       Score 25; DB 14; Length 11; Pred. No. 3.9e+02; Indels 3; Mismatches 0; Indels
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Pred. No. 1.2e+06;
1; Mismatches 2
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1.2e+06;
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                                                                                                                                           // OTHER INFORMATION: Synthetic construct
US-10-601-953-64
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CURRENT APPLICATION NUMBER: US/10/293,822
CURRENT FILING DATE: 2002-11-12
PRIOR APPLICATION NUMBER: US/09/418,780
PRIOR FILING DATE: 1999-10-15
PRIOR APPLICATION NUMBER: PCT/JP98/01782
PRIOR APPLICATION NUMBER: JAPAN 9/116402
PRIOR PILING DATE: 1998-04-18
PRIOR FILING DATE: 1997-04-18
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                                                                 Query Match
Best Local S
Matches 3
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APPLICANT: Quay, Steven C.
TITLE OF INVENTION: Compositions And Methods For Modulating Physiology Of Epithelial TITLE OF INVENTION: Junctional Adhesion Molecules For Enhanced Mucosal Delivery Of TITLE OF INVENTION: Therapeutic Compounds
FILE REFERENCE: 02-03US
CURRENT APPLICATION NUMBER: US/10/601,953
CURRENT FILING DATE: 2003-06-24
                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 900
SOFTWARE: PatentIn version 3.2
SEQ ID NO 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 22 LENGTH: 11
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Publication No. US20030083470A1
GENERAL INFORMATION:
APPLICANT: Jones, Michael H.
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 64, Appropriate Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
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PRIOR APPLICATION NUMBER: 60/392,512
PRIOR FILING DATE: 2002-06-28
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                                                                                                                                                                                                                 LENGTH: 12
TYPE: PRT
                                                                                                                                                                                FEATURE:
                                                                                                                                                                                             ORGANISM: Artificial Sequence
                                                                 l Similarity
3; Conserv
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3; Conserv
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HGILRDF
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No. US20040077540A1
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42.9%;
                                                                   Score 25; DB Pred. No. 4.3e 3; Mismatches
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Pred. No.
                                                                   DB 16; Length 12;
4.3e+02;
ches 1; Indels
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APPLICANT: Madrenas, Joaquin
APPLICANT: Carreno, Beatriz
APPLICANT: Kuchroo, Vijay
IIILE OF INVENTION: METHODS FOR MODULATING AN IMMUNE
IIILE OF INVENTION: RESPONSE BY MODULATING THE INTERACT
IIILE OF INVENTION: PP2A
FILE REFERENCE: GNN-027
CURRENT APPLICATION NUMBER: US/10/211,207
CURRENT FILING DATE: 2002-08-02
PRIOR APPLICATION NUMBER: US/10/077,106
PRIOR FILING DATE: 2002-02-15
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 23
RESULT 20
US-10-211-207-24
; Sequence 24, Application US/10211207
; Publication No. US20030004113A1
; GENERAL INFORMATION:
; APPLICANT: Collins, Mary
; APPLICANT: Madrenas, Joaquin
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; Sequence 65, Application US/10601953
; Publication No. US20040077540A1
; GENERAL INFORMATION:
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US-10-211-207-23
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TITLE OF INVENTION: Compositions And Methods For Modulating Physiology Of Epithelial TITLE OF INVENTION: Junctional Adhesion Molecules For Enhanced Mucosal Delivery Of TITLE OF INVENTION: Therapeutic Compounds

FILE REFERENCE: 02-03US

CURRENT APPLICATION NUMBER: US/10/601,953

CURRENT FILING DATE: 2003-06-24

PRIOR APPLICATION NUMBER: 60/392,512

PRIOR APPLICATION NUMBER: 60/392,512

PRIOR FILING DATE: 2002-06-28

NUMBER OF SEQ ID NOS: 900

SOFTWARE: PatentIn version 3.2

SEQ ID NO 65
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Best Local 9
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TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic construct
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42.9%;
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66.7%;
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Pred. No. 5e+02;
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RESULT 21
US-10-077-106-23
; Sequence 23, Application US/10077106
; Publication No. US20030166531A1
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; ORGANISM: Polyomavirus small
US-10-077-106-23
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TITLE OF INVENTION: METHODS FOR MODULATING J
TITLE OF INVENTION: RESPONSE BY MODULATING
TITLE OF INVENTION: PP2A
FILE REFERENCE: GNN-027
CURRENT APPLICATION NUMBER: US/10/211,207
CURRENT FILING DATE: 2002-08-02
PRIOR APPLICATION NUMBER: US/10/077,106
PRIOR APPLICATION NUMBER: US/10/077,106
PRIOR FILING DATE: 2002-02-15
NUMBER OF SEQ ID NOS: 25
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Best Local S
Matches 4
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PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 23
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LENGTH: 9
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Best Local Similarity
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APPLICANT: Collins, Mary
APPLICANT: Madrenas, Joaquin
APPLICANT: Madreno, Beatriz
APPLICANT: Carreno, Beatriz
APPLICANT: Kuchroo, Vijay
TITLE OF INVENTION: METHODS FOR MODULATING AN IMMUNE
TITLE OF INVENTION: RESPONSE BY MODULATING THE INTERACTION BETWEEN CTLA4
TITLE OF INVENTION: PP2A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Madrenas, Joaquii
APPLICANT: Carreno, Beatriz
APPLICANT: Kuchroo, Vijay
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CURRENT FILING DATE: 2002-02-15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH:
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66.7%;
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Pred. No. 1.2e+06;
1; Mismatches 1
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Pred. No. 1.2e+06;
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GENERAL INFORMATION:
APPLICANT: BOGOCH, SAMUEL
APPLICANT: BOGOCH, ELENORE S.
TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS
TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS
FILE REFERENCE: 09425-46904
CURRENT APPLICATION NUMBER: US/10/105,232
CURRENT FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 1994-02-17
NUMBER OF SEQ ID NOS: 535
COCTUMENT DATE: 1994-02-17
                                                                                                                                                                                                                                                                      RESULT 24
US-10-189-437-257
; Sequence 257, Applicat
; Publication No. US2003
; GENERAL INFORMATION:
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US-10-105-232-270
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; TYPE: PRT
; ORGANISM: Influenza virus
US-10-105-232-270
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Best Local S
Matches 4
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CURRENT APPLICATION NUMBER: US/10/077,106
CURRENT FILING DATE: 2002-02-15
PRIOR APPLICATION NUMBER: 60/269,757
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 24
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Best Local Similarity 71.4%;
Matches 5; Conservative
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SEQ ID NO 270
                                     APPLICANT: BOGOCH, SAMUEL
APPLICANT: BOGOCH, ELENORE S.
APPLICANT: BOGOCH, ELENORE S.
TITLE OF INVENTION: REPLIKIN PEPTIDES AND ANTIBODIES THEREFORE
FILE REFERENCE: 09425/46905
CURRENT APPLICATION NUMBER: US/10/189,437
CURRENT FILING DATE: 2002-07-08
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               APPLICATION NUMBER: 10/105,232
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Pred. No. 7
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Pred. No: 1.2e+06;
1; Mismatches 1
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7.7e+02;
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                                                                                                                                                                                                                                                                                                                                               Sequence 419, Application US/09834765 Patent No. US20020055478A1 GENERAL INFORMATION:
                                                                                                                                           APPLICANT: Mary Faris
APPLICANT: Pia M. Challita-Eid
APPLICANT: Arthur B. Raitano
APPLICANT: Steve Chappell Mitchell
APPLICANT: Daniel B. Applicant: Daniel 
TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT TITLE OF INVENTION: AND DETECTION OF CANCER FILE REFERENCE: 129.6USU1
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Aya Jakobovits

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APPLICANT: Mary Faris
APPLICANT: Mary Faris
APPLICANT: Pia M. Challita-Eid
APPLICANT: Arthur B. Raitano
APPLICANT: Steve Chappell Mitchell
APPLICANT: Steve Chappell Mitchell
APPLICANT: Daniel E.H. Afar
APPLICANT: Aya Jakobovits
ITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT
ITLE OF INVENTION: AND DETECTION OF CANCER
FILLE REFERENCE: 129.6USU1
CURRENT APPLICATION NUMBER: US/09/834,765
CURRENT FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR FILING DATE: 2000-04-12
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Best Local Similarity
                                                                                                                                                          ; TYPE: PRT ; ORGANISM: Homo sapiens US-09-834-765-139
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 139
LENGTH: 9
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PRIOR APPLICATION NUMBER: 09/984,057
PRIOR FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
                                                                             Matches
                                                                                           Query Match
Best Local Similarity
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SOFTWARE: PatentIn 2.1
SEQ ID NO 257
LENGTH: 14
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                                      2 FHRVIKDF 9
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                                                                          4; Conservative
YEHVIKNE 8
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71.4%;
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50.0%;
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Pred. No. 1.
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Pred. No. 7
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FILE REFERENCE: 123. CANCER
CURRENT APPLICATION NUMBER: US/09/834,765
CURRENT FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/197,647
PRIOR FILING DATE: 2000-04-12
NUMBER OF SEQ ID NOS: 770
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 477
TEXTS.
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Best Local Similarity
4; Conserve
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US-09-834-765-477
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 419
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Patent No. US20020055478A1
                                                                                                                                                                                                                    Patent No. US2002005
                                                  APPLICANT: Mary Faris
APPLICANT: Pia M. Challita-Eid
APPLICANT: Arthur B. Raitano
APPLICANT: Steve Chappell Mitchell
APPLICANT: Daniel E.H. Afar
APPLICANT: Daniel E.H. Afar
APPLICANT: Aya Jakobovits
TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT
TITLE OF INVENTION: AND DETECTION OF CANCER
FILE REFERENCE: 129.6USU1
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APPLICANT: Pia M. Challita-Eid
APPLICANT: Arthur B. Raitano
APPLICANT: Steve Chappell Mitchell
APPLICANT: Daniel B.H. Afar
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CURRENT FILING DATE: 2001-09-21
CURRENT APPLICATION NUMBER: US/09/834,765
CURRENT FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/197,647
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Pred. No. 8.4e+02;
2; Mismatches 2
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Pred. No. 1.
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CURRENT APPLICATION NUMBER: US/09/984,056
CURRENT FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/817,144
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Best Local Similarity
Matches 4; Conserv
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NUMBER OF SEQ ID NOS: 770
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 666
                                                                                                                                           GENERAL INFORMATION:
APPLICANT: BOGOCH, SAMUEL
APPLICANT: BOGOCH, ELENORE S.
TITLE OF INVENTION: REPLIKINS AND METHODS OF IDENTIFYING
TITLE OF INVENTION: REPLIKIN-CONTAINING SEQUENCES
FILE REFERENCE: 09425-46902
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Patent No. US200
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Best Local Similarity
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TITLE OF INVENTION: ANTHRAX AND SMALL POX REPLIKINS AND METHODS OF USE FILE REFERENCE: 09425-46903
CURRENT APPLICATION NUMBER: US/09/984,057
CURRENT FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/146,755
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NUMBER OF SEQ ID NOS: 103
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TYPE: P:
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Pred. No. 9.3e+0
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Pred. No. 8.4e+02;
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FILE REFERENCE: 09425-46904
CURRENT APPLICATION NUMBER: US/10/105,232
CURRENT FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR FILING DATE: 1998-09-04
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 1994-02-17
NUMBER OF SEQ ID NOS: 535
SOFTWARE: Patentin 2:1
SEQ ID NO 72
1.ENCTH: 11
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PRIOR APPLICATION NUMBER: 09/817,144
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 08/198,139
PRIOR FILING DATE: 1994-02-17
NUMBER OF SEQ ID NOS: 90
SOFTWARE: Patentin 2.1
SEQ ID NO 72
                                                                                                                                                   RESULT 32
US-10-105-232-266
US-10-105-232-266
; Sequence 266, Application US/10105232
; Publication No. US20030180328A1
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Best Local Similarity
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US-10-105-232-72
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GENERAL INFORMATION:

APPLICANT: BOGOCH, SAMUEL

APPLICANT: BOGOCH, ELENORE S.

TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS

TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS

FILE REFERENCE: 09425-46904

CURRENT APPLICATION NUMBER: US/10/105,232

CURRENT FILING DATE: 2002-03-26
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Publication No.
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Best Local (
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80.0%;
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Pred. No. 9
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Pred. No. 9
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                                                                                                                                                                                                                                                                                                                                                                 DB 14;
9.3e+02;
                                                                                                                                                                                                                                                                                                                                              0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                Length 11;
                                                                                                                                                                                                                                                                                                                                              0
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RESULT 34 US-10-189-437-253

Sequence 253, Application US/10189437 Publication No. US20030194414A1 GENERAL INFORMATION: APPLICANT: BOGOCH, SAMUEL

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APPLICANT: BOGCH, ELENORE S.

APPLICANT: BOGCH, ELENORE S.

FILE REFERENCE: 09425/46905

FULE REFERENCE: 09425/46905

CURRENT FILING DATE: 2002-07-08

PRIOR APPLICATION NUMBER: 10/105,232

PRIOR FILING DATE: 2002-03-26

PRIOR APPLICATION NUMBER: 09/984,057

PRIOR APPLICATION NUMBER: 09/984,057

PRIOR FILING DATE: 2001-10-26

PRIOR APPLICATION NUMBER: 60/303,396

PRIOR APPLICATION NUMBER: 60/303,396

PRIOR APPLICATION NUMBER: 60/278,761

PRIOR APPLICATION NUMBER: 60/278,761

PRIOR FILING DATE: 2001-03-27

NUMBER OF SEQ ID NOS: 729

SOFTWARE: Patentin 2.1

SEQ ID NO 72

LENGTH: 11

TYPE: PRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 1998-09-04
PRIOR PILING DATE: 1998-09-04
PRIOR PILING DATE: 2001-03-27
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: 08/198,139
PRIOR FILING DATE: 1994-02-17
NUMBER OF SEQ ID NOS: 535
SOFTWARE: Patentin 2.1
SEQ ID NO 266
LENGTH: 11
В
                                     Ś
                                                                                                                                                     ; ORGANISM: Homo sapiens
US-10-189-437-72
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                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
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                                                                                           Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: BOGOCH, SAMUEL APPLICANT: BOGOCH, ELENO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT ORGANISM: Influenza virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: gly or gln
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
NAME/KEY: MOD_RES
LOCATION: (8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                              3 HRVIK 7
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                                                                        Similarity 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity 57.: 4; Conservative
HRLIK 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KFHXIEK 11
                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      46.9%;
                                                                                           46.9%;
80.0%;
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1; Mismatches
                                                                          Score 23; DB Pred. No. 9.3e
1; Mismatches
                                                                                                          Length 11;
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RESULT 36
US-10-325-810-85
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                                                                                                                                                                                                                  ; OTHER INFORMATION: C-term amidated US-10-253-286-874
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US-10-253-286-874
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SEQ ID NO 253
LENGTH: 11
                                                                                                                                               Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 874, Application US/10253286 Publication No. US20040058881A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Pai
SEQ ID NO 874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/10/189,437
CURRENT FILING DATE: 2002-07-08
PRIOR APPLICATION NUMBER: 10/105,232
PRIOR FILING DATE: 2002-03-26
                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 905
                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 10/197,000 PRIOR FILING DATE: 2002-07-17 PRIOR APPLICATION NUMBER: 09/396,813 PRIOR FILING DATE: 1999-09-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/10/253,286
CURRENT FILING DATE: 2003-01-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: HUMPHREYS,
APPLICANT: XU, MINZH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Influenza virus
FEATURE:
NAME/KEY: MOD_RES
LOCATION: (8)
COTHER INFORMATION: gly or gln
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ITLE OF INVENTION: REPLIKIN PEPTIDES AND ANTIBODIES THEREFORE THE REPERENCE: 09425/46905
                                                                                                                                                                                                                                                                       OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: Ii-key/PLP epitope hybrid peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PPLICANT: XU, MINZHEN
ITLE OF INVENTION: I1-KEY/ANTIGENIC EPITOPE HYBRID PEPTIDE VACCINES
ILE REFERENCE: REH-2015
                                                                                                                                                                                                                                                        FEATURE:
                                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: FILING DATE: 2001-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KFHRVIK 7
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Similarity 57.1%;
4; Conservative
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                                                                          KFHLFIAAF 12
                                                                                                           KFHRVIKDF 9
                                                                                                                                                Conservative
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                                                                                                                                                                 46.9%;
55.6%;
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                                                                                                                                                                 Score 23; DB 12;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 23; DB 14; Length 11; Pred. No. 9.3e+02;
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                                                                                                                                                Mismatches
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                                                                                                                                                Indels
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                                                                                                                                                Gaps
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US-10-325-810-85
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Query Match
                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: (415) 57
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 08/911,312
FILING DATE: 14-AUG-1997
APPLICATION NUMBER: US 08/912,951
FILING DATE: 14-AUG-1997
APPLICATION NUMBER: US 08/915,503
FILING DATE: 14-AUG-1997
APPLICATION NUMBER: WO PCT/US97/17885
FILING DATE: 01-OCT-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0,

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Andrews, William H.
TITLE OF INVENTION: Human Telomerase Catalytic Subunit
NUMBER OF SEQUENCES: 633
                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Cech, Thomas R.
                                                                    SEQUENCE DESCRIPTION: SEQ ID NO: 85:
                                                                                                                                                                                                                             TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/09/402,181
FILING DATE: 29-Sep-1997
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-OCT-1996
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
                                                                                        OTHER INFORMATION:
motif C peptide fro
pombe TRT"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/10/325,810 FILING DATE: 20-Dec-2002 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Ausenhus, Scott L.
REGISTRATION NUMBER: 42,271
REFERENCE/DOCKET NUMBER: 015389-002620US
                                                                                                                                                             NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                          TYPE: amino acid
STRANDEDNESS: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 25-APR-1997
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
APPLICATION NUMBER: US 08/854,050
FILING DATE: 09-MAY-1997
FILING DATE: 09-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TY: San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lingner, Joachim
Nakamura, Toru
Chapman, Karen B.
Morin, Gregg B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Harley, Calvin B.
                                                                                                          VFORMATION: /note= "telomerase RT palm, primer grip
peptide from Schizosaccharomyces
                                                                                                                                                                                                                                                                                                                    13 amino acids
                                                                                                                                                                                                                                                                                                                                                 CTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                   (415)
                                                                                                                                                                                Peptide
 46.9%;
                                                                                                                                                                                                                                                                                                                                                                                              576-0300
   Score 23;
 DB 12; Length 13;
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RESULT 37
US-10-044-692-85
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Publication No. US2002
GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 66. Matches 4; Conservative
                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: 85: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 08/854,050
FILING DATE: 09-MAY-1997
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
APPLICATION NUMBER: US 08/724,643
FILING DATE: 10-OCT-196
ATTORNAYAGENT INFORMATION:
NAME: APPLICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: Patentin Release #1.0, V
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/044,692
FILING DATE: 11-Jan-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 015389-002600US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Andrews, William H.
Andrews, William H.
TITLE OF INVENTION: HUMAN TELOMERASE CATALYTIC SUBUNIT: DIAGNOSTIC AND
THERAPEUTIC METHODS
                                                                                                                                       MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and
                 LUCATION: 1..13
OTHER INFORMATION: /note= "telomerase RT palm, primer grip motif C peptide from Schizosaccharomyces pombe TRT"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RVIKDF 9
                                                                                                                                                                                 TYPE: amino acid
STRANDEDNESS: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                       NAME: Apple, Randolph T
REGISTRATION NUMBER: 36,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 08/912,951 FILING DATE: <Unknown>
                                                                                                   NAME/KEY:
                                                                                                                                                                                                                                                                                        TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: United States of America
                                                                                                                                                                                                                       ENGTH: 13 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US20030096344A1
DESCRIPTION: SEQ ID NO: 85:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cech, Thomas R.
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Chapman, Karen B.
Morin, Gregg B.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EE: Townsend and Townsend and Crew LLP Two Embarcadero Center, 8th Floor
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                                                                                                                                                                                                                                                                                        (415)
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                                                                                                                                                                linear
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1; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                     36,429
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FRICK AFFLICATION NUMBER: 08/912,951

FILING DATE: <Unknown>
APPLICATION NUMBER: US 08/854,050

FILING DATE: 09-MAY-1997

APPLICATION NUMBER: US 08/851,843

FILING DATE: 06-MAY-1997

APPLICATION NUMBER: US 08/846,017

FILING DATE: 25-APR-1997

APPLICATION NUMBER: US 08/844,419

FILING DATE: 18-APR-1997

APPLICATION NUMBER: US 08/724,643

FILING DATE: 01-OCT-1996

ATTORNEY/AGENT INFORMATION:

NAME: Apple, Randolph T.

REGISTRATION NUMBER: 36,429

REFERENCE/DOCKET NUMBER: 015389-002600US

TELEPHONE: (415) 576-0200

TELEPHONE: (415) 576-0300

INFORMATION FOR SEQ ID NO: 85:

SEQUENCE CHARACTERISTICS:

SEQUENCE CHARACTERISTICS:

SEQUENCE CHARACTERISTICS:

SEQUENCE Amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 85, Ap
Publication No.
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity 66.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/044,539
FILING DATE: 11-Jan-2002
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES.

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, 8th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Andrews, William H.
TITLE OF INVENTION: HUMAN TELOMERASE CATALYTIC SUBUNIT:
THERAPEUTIC METHODS
                                                                            MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4 RVVDDF 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 RVIKDF
                                                                                                                        STRANDEDNESS: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: San Francisco
STATE: California
 OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: United States of America
                                         NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application US/10044539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US20030100093A1
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Chapman, Karen B.
Morin, Gregg B.
Harley, Calvin
                                                                                                                                          amino acid
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ingner, Joachim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            46.9%;
66.7%;
                                    Peptide
/note= "telomerase RT palm, primer grip
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 23; DB 14;
Pred. No. 1.1e+03;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 13;
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RESULT 40

US-10-014-340-28

; Sequence 28, Application US/10014340
; Publication No. US20030064411A1
; GENERAL INFORMATION:
; APPLICANT: Herath, et al
; TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and Uses Therefor, TITLE OF INVENTION: Diagnosis and Treatment of Alzheimer's Disease
; FILE REFERENCE: 9195-078
; CURRENT APPLICATION NUMBER: US/10/014,340
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 823
; NUMBER OF SEQ ID NOS: 823
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                                                                                                ; ORGANISM: Homo sapiens US-10-014-340-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
OTHER INFORMATION: C-term amidated
US-10-245-871-874
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Query Match
Best Local Similarity 50.0
Thehes 3; Conservative
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Best Local Similarity 55.1
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 874, Application US/10245871 Publication No. US20030235594A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                  SOFTWARE: PatentIn version 3.0 SEQ ID NO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 905
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 874
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE: REH-2013
CURRENT APPLICATION NUMBER: US/10/245,871
CURRENT FILING DATE: 2003-01-09
PRIOR APPLICATION NUMBER: 10/197,000
PRIOR FILING DATE: 2002-07-17
PRIOR FILING DATE: 2002-07-17
                                                                                                                                  LENGTH: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 09/396,813 PRIOR FILING DATE: 1999-09-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: HUMPHREYS,
APPLICANT: XU, MINZH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: Ii-key/PLP epitope hybrid peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PLICANT: XU, MINZHEN TLE OF INVENTION: Ii-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        motif C peptide from Schizosaccharomyces pombe TRT" SEQUENCE DESCRIPTION: SEQ ID NO: 85:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 RVIKDF 9
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                                         46.9%;
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                       Score 23; DB 12; Length 14; Pred. No. 1.2e+03; 3; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 23; DB 15; Length 13; Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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                            RESULT 43
US-10-109-171-135
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FILE REFERENCE: 13425-118001
CURRENT APPLICATION NUMBER: US/10/190,264
CURRENT FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: US 60/304,706
PRIOR FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: SE 0102384-5
PRIOR FILING DATE: 2001-07-03
NUMBER OF SEQ ID NOS: 2
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2
                                                                                                                                   OTHER INFORMATION: SYNTHETIC SEQUENCE; NAME/KEY: MOD_RES; LOCATION: (9)
OTHER INFORMATION: AMIDATION
US-09-820-053A-135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; LENGTH: 14
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-190-264-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 41
US-10-190-264-2
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                                                                 Query Match
Best Local S
Matches 4
                                                                                                                                                                                                                                                                                            APPLICANT: Owen, Donald R.
TITLE OF INVENTION: SHORT BIOACTIVE PEPTIDES
FILE REFERENCE: HELX027
CURRENT APPLICATION NUMBER: US/09/820,053A
CURRENT FILING DATE: 2001-03-28
NUMBER OF SEQ ID NOS: 165
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 2, Application US/10190264
Publication No. US20030082631A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 135, Appropriate Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Uppenberg, Jonus
TITLE OF INVENTION: COMPOUNDS MODULATING PPAR-GAMMA
                                                                                                                                                                                                                                             TYPE: PRT ORGANISM: ARTIFICIAL SEQUENCE
                                                                                                                                                                                                                             FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
nes 3; Conserv
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                                 1 KFHRVIKDF 9
                                                                                     Similarity
KFKKLAKKF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Application US/09820053A o. US20030083243A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                   Conservative
                                                                                     44.9%;
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                                                                                   Score 22; DB 10;
Pred. No. 1.2e+06
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Pred. No. 1.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                      Mismatches
                                                                                     .2e+06;
                                                                                                     Length 9;
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                                                                   Indels
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RESULT 45
US-09-833-039-114
; Sequence 114, Application US/09833039
; Publication No. US20030175960A1
; GENERAL INFORMATION:
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; ORGANISM: ARTIFICIAL SEQUENCE
; FEATURE:
OTHER INFORMATION: SYNTHETIC SEQUENCE
; NAME/KEY: MOD_RES
; LOCATION: (9)
OTHER INFORMATION: AMIDATION
US-10-109-171-135
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US-09-876-904A-500
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                                                                                                                                                                                                                                                                                                                                                                                                 US-09-876-904A-500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: BOULIKAS, TENI
TITLE OF INVENTION: ENCAPSULATION OF PLASMID DNA (LIPOGENES TM) AND THERAPEUTIC
TITLE OF INVENTION: AGENTS WITH NUCLEAR LOCALIZATION SIGNAL/FUSOGENIC PEPTIDE
TITLE OF INVENTION: CONJUGATES INTO TARGETED LIPOSOME COMPLEXES
FILE REFERENCE: TB-2002.00
CURRENT APPLICATION NUMBER: US/09/876,904A
CURRENT FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: US 60/210,925
PRIOR APPLICATION NUMBER: US 60/210,925
PRIOR FILING DATE: 2000-06-09
NUMBER OF SEQ ID NOS: 629
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 500
                                                                                                                                                                                                                                                                                                                 Best Loc
Matches
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TITLE OF INVENTION: SHORT BIOACTIVE PEPTIDES AND METHODS FOR THEIR USE
FILE REFERENCE: HELX028
CUURRENT APPLICATION NUMBER: US/10/109,171
CURRENT FILING DATE: 2002-03-28
NUMBER OF SEQ ID NOS: 165
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 135
LENGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 500, Application US/09876904A Publication No. US20030072794A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                       Query Match
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APPLICANT: Tureci, Ozlem
APPLICANT: Sahin, Ugur
APPLICANT: Pfreundschuh, Michael
TITLE OF INVENTION: Tumor Associated Peptide and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Saccharomyces cerevisiae
FEATURE:
OTHER INFORMATION: Yeast SNF2, a transcriptional regulator of many
OTHER INFORMATION: genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ENGTH: 10
                                                                                                                                                                                                                                                                                                                                  Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 KFKKLAKKF 9
                                                                                                                                                                                                                                                                       1 KFHRVIK 7
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Similarity 44.4%;
4; Conservative
                                                                                                                                                                                                                                                                                                              Similarity
3; Conserv
                                                                                                                                                                                                                                 RIHKVIR 9
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                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                  44.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 22; DB 14;
Pred. No. 1.2e+06;
2; Mismatches 3
                                                                                                                                                                                                                                                                                                            Score 22; DB 10; Length 10; Pred. No. 1.3e+03; Mismatches 1; Indels.
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PRIOR APPLICATION NUMBER: US 09/409,455
PRIOR FILING DATE: 1999-09-30
PRIOR PILING DATE: 1999-09-30
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 09/344,040
PRIOR APPLICATION NUMBER: US 09/105,839
PRIOR FILING DATE: 1998-06-26
PRIOR FILING DATE: 1997-05-05
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                                                                                                                                                                                                           ; TYPE: PRT; ORGANISM: Homo sapiens US-09-833-039-114
                                                                                                   Query Match 44.:
Best Local Similarity 50.0
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: LUD 5622.1
CURRENT APPLICATION NUMBER: US/09/833,039
CURRENT FILING DATE: 2001-04-12
5 RLHRII 10
                                                1 KFHRVI 6
                                                                                                                             44.9%;
                                                                                                     Score 22; DB Pred. No. 1.3e 2; Mismatches
                                                                                                                             DB 10;
1.3e+03;
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Search completed: August 30, 2004, 11:04:51 Job time : 12.0068 secs

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                 Result
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Perfect score:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          seq length: 8
seq length: 14
 protein search, using sw model
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1: sp_archea:*
2: sp_bacteria:*
4: sp_human:*
4: sp_human:*
5: sp_invertebrat:
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_phage:*
11: sp_rodent:*
12: sp_vertebrate
14: sp_vertebrate
14: sp_vertebrate
14: sp_vertebrate
15: sp_rvirus:*
16: sp_rvirus:*
16: sp_bacteriap:
17: sp_archeap:*
                                                                                                                                                        Query
Match Length
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Gapop 10.0 , Gapext 0.5
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49
KFHRVIKDF 9
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sp_phage:*
sp_plant:*
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sp_virus:*
sp_vertebrate:*
sp_unclassified:*
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sp_bacteriap:*
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sp_mammal:*
sp_mhc:*
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402
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Q9TQV4
P87031
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                       Q8aww0 coscoroba c
Q8awv9 anser caeru
Q8awv8 cygnus colu
Q8awv7 anas platyr
Q05403 saccharomyc
Q8n6bl homo sapien
Q9xsp7 pygathrix n
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Q9xsp8 presbytis j
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P87031 saccharomyc
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ALIGNMENTS

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RESULT 1
Q9UNM9
ID Q9UN
AC Q9UN
DT 01-M
DT 01-M
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CO RING
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   RESULT
Q9TQV4
ID Q9
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Best Local S
Matches 3
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EMBL; AF107699; AAD24963.1; -.
InterPro; IPR001487; Bromodomain.
NON_TER 1 1 1
NON_TER 14 14
SEQUENCE 14 AA; 1677 MW; 5CDF036680AE22D3 CRC44.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q9UNM9 PRELIMINARY; FKT; La care.
Q9UNM9;
O1-MAY-2000 (TrEMBLrel. 13, Created)
O1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
O1-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Q9TQV4 PRELIMINARY; PRT;
Q9TQV4;
01-MAY-2000 (TrEMBLrel. 13, Created)
                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens (Human)
Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       RING3 protein (Fragment).
                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
Keddache M, Zhang F, Greenberg
A Dinucleotide Repeat Between
                                                                                                                                                                                                                                                                                                                                                                                ICBI_TaxID=9606;
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                                                                                                     2 FHRVIK 7
:|::||
2 YHKIIK 7
                                                                                                                                                            Similarity
3; Conserv
                                                                                                                                                               Conservative
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Primates;
                                                                                                                                                                            51.0%;
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Pred. No. 3.9e+02;
3; Mismatches 0; Indels
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Catarrhini;
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Exons
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                                AA.
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RESULT 3
P87031
ID P870
AC P870
DT 01-J
DT 01-O
DT 01-O
DT 01-O
CEUKA
OC SACC
OX NCBI
RN [1]
RP SEQU
RA Van
RA Nawr
RL Subm
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RESULT 4
Q8AWW0
ID Q8AW
AC Q8AW
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Matches 4
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Matches 3
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     Q8AWWO;
Q8AWWO;
01-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   P87031;
01-JUL-1997
01-NOV-1999
01-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
Van Dyck L., Skala J.,
Nawrocki A., Del Bino (
Submitted (MAY-1996) to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Saccharomyces cerevisiae (Baker's yeast).

Bukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Perissodactyla; Equidae; Equus. NCBI_TaxID=9796;
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01-JUN-2001 (TrEMBLrel. 17
POP-variant * transferrin
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er identification of single nucleotide polymorphisms
transferrin gene.";
ted (SEP-1999) to the EMBL/GenBank/DDRJ databases
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3; Conserv
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                                                                                                                                                                                                                                                                                                                                                      Conservative
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                                                                PRELIMINARY;
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75.0%;
       23,
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17, Last annotation update)
in gene, EXON 17 and partial
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Goffeau A.;
he EMBL/GenBank/DDBJ
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1; Mismatches
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RESULT
Q8AWV9
ID Q8AVV9
AC Q1
DT Q1
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Matches 2
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Q8AWV9;
Q8AWV9;
Q1-MAR-2003 (TrEMBLrel. 2
01-MAR-2003 (TrEMBLrel. 2
01-MAR-2003 (TrEMBLrel. 2
                                                                            Q8AWV8
Q8AWV8;
01-MAR-2003
01-MAR-2003
01-MAR-2003
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SEQUENCE
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SEQUENCE
                            LDH-B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Repeat 1 (CR1) Retrotransposon coscoroba."; Submitted (JUN-2002) to the EME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A. COtter J.-P., StJohn J., Cotter J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Anser caerulescens caerulescens (snow goose).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Anser.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Coscoroba coscoroba
Eukaryota; Metazoa;
Archosauria; Aves; N
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01-MAR-2003 (TrEMBLrel.
LDH-B (Fragment).
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Submitted (JUN-2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cotter J.-P., StJohn J., Quinn "Isolation of a Precisely Delir Repeat 1 (CR1) Retrotransposon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=70340;
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columbianus (tundra swan)
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2; Conservative
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; Chordata; Craniata; Vertebrata; Euteleostomi;
Neognathae; Anseriformes; Anatidae; Coscoroba.
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ly Delineated,
nsposon Within
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ly Delineated,
nsposon Within
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Pred. No. 1e+06;
3; Mismatches
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Pred. No. 1e+0
3; Mismatches
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Q8AWV7;
Q8AWV7;
01-MAR-2003 (TrEMBLrel. 2:
01-MAR-2003 (TrEMBLrel. 2:
01-MAR-2003 (TrEMBLrel. 2:
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SEQUENCE
                                                                                                                                      Q05403 PRELIMINARY; PRT; 8 AA.
Q05403;
01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last sannotation updat
DNA for ORF'S from chromosome XV (Fragment).
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LDH-B.
                                                                              Saccharomyces cerevisiae (Baker's yeast)
Eukaryota; Fungi; Ascomycota; Saccharomy
Saccharomycetales; Saccharomycetaceae; S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Repeat 1 (CR1) Retrotransposon coscoroba.";
Submitted (JUN-2002) to the EME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Anas platyrhynchos (Domestic duck).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Anas.
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 SEQUENCE FROM N.A. STRAIN=FY1679;
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Archosauria; Aves; l
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[1]
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                                                           NCBI_TaxID=4932;
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Pred. No. 1e+0
3; Mismatches
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Pred. No. 1e+0
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No. le+06;
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le+06;
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RESULT
Q8N6B1
ID Q8
AC Q8
AC Q8
DT 01
DT 01
DT 01
DT 01
DT 01
RT Ca
OC MA
OC MA
CA NC
RN [1]
RR CT NC
RR CT II

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Q9XSP7
DRRRRR OCCOON DIT
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Matches
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Best Local :
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01-OCT-2002 (TrEMBLrel. 22, Cre
01-OCT-2002 (TrEMBLrel. 22, Las
01-OCT-2002 (TrEMBLrel. 22, Las
Capacitative calcium channel p
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Multiple Trp isoforms implicated in catexpressed in human pregnant myometrium Biol. Reprod. 67:988-994(2002). EMBL; AF483646; AAM97861.1; -. NON_TER 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Zumstein E., Pearson B.M., Kalogeropoulos A., "A 29.425 kb segment on the left arm of yeast more than twice as many unknown as known open Yeast 11:975-986(1995).

EMBL; X83121; CAA58183.1; -.

NON TER

8
             SEQUENCE FROM N.A.

MEDLINE=20065871; PubMed=10598812;

Bonthron D.T., Smith S.L., Campbell

"Complex patterns of intragenic poly
Hum. Genet. 105:452-459(1999).
                                                                                                                                                                                                                                                                  01-NOV-1999 (TrEMBLrel.
01-NOV-1999 (TrEMBLrel.
01-DEC-2001 (TrEMBLrel.
Platelet-derived growth
                                                                                                                                                                                                                                                                                                                                                    Q9XSP7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE=Late pregnancy myometrium;
MEDLINE=22181008; PubMed=12193412;
Yang M., Gupta A., Shlykov S.G., Corrigan
Sanborn B.M.;
                                                                                                                                                                               Pygathrix nemaeus (Dove langu
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                                    ICBI_TaxID=54133;
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3; Conserv
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8 AA; 879 MW;
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Primates;
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rdata; Craniata; Ve
mates; Catarrhini;
                                                                                                                                                                                                                                                                  12, Created)
12, Last sequence update)
19, Last annotation updat
factor A chain (Fragment)
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Last annotation update)
l protein Trpl (Fragment).
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Pred. No.
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Pred.
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                                                                                                                                                                                                                                                                                                                                                                           PRT;
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                                    polymorphism
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1e+06;
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                                                                                                                                                                                   Vertebrata; Euteleostomi;
i; Cercopithecidae; Colobinae;
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B
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                                       at
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chromosome XV c
reading frames.
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                                       PDGFA locus.";
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RESULT 11
Q9XSP2
ID Q9XSF
AC Q9XSF
DT 01-NC
DT 01-DE
DE Plate
GN PDGFF
OC Mamma
OC Mamma
OC MAMMA
OX NCBI
RN [1]
RP SEQUI
RR MEDL
RR MEDL
RR EMBL
DR EMBL
FT NON
FT NON
FT NON
FT NON
SEQUI
                                               RESULT 12
Q9XSP5
AC Q9XSP
AC Q9XSP
AC Q9XSP
DT 01-NC
DT 01-NC
DT 01-DE
DE Plate
GN PDGFA
OS PAN t
OC Mamma
OX NCBI
RN [1]
RP SEQUE
RX MEDLI
RA BONTH
RT HUM
DR EMBL;
FT NON 1
FT NON 1
FT NON 1
SQ SEQUE
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 Query Match
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NON TER
SEQUENCE
                                                                                   MEDLINE=20065871; PubMed=10598812;
Bonthron D.T., Smith S.L., Campbell R.;
"Complex patterns of intragenic polymorphism
Hum. Genet. 105:452-459(1999).
EMBL; AJ243277; CAB45926.1; -.
                                                                                                                                                                                  Pan troglodytes (Chimpanzee).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=20065871; PubMed=10598812;
Bonthron D.T., Smith S.L., Campbell R.;
"Complex patterns of intragenic polymorphism
Hum. Genet. 105:452-459(1999).
EMBL; AJ243280; CAB45927.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hylobates syndactylus (Siamang) (Symphalangus syndactylus).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hylobatidae; Hylobates.
                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                 NCBI_TaxID=9598;
[1]
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01-NOV-1999 (TremBlrel.
01-DEC-2001 (TremBlrel.
Platelet-derived growth
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01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
01-DEC-2001 (Tremblance).
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 Similarity 60.
3; Conservative
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3; Conserv
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11 AA;
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11 AA;
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11
AA;
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                                              1331 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           1345 MW;
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            38.8%;
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. 12, Last sequence.
. 19, Last annotate.
. 1 factor A chain (
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Score 19; DB 6;
Pred. No. 4.8e+03;
1; Mismatches 1
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Catarrhini; Hominidae;
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annotation updat
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                      Length 11;
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                                                                                                             PDGFA locus.";
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RESULT 14
Q9XSP6
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Q9XSP6;
01-NOV-1999
01-NOV-1999
01-DEC-2001
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SEQUENCE
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01-NOV-1999
01-DEC-2001
                                                                                                                                                                                                                            SEQUENCE FROM N.A.

MEDLINE=20065871; PubMed=10598812;

Bonthron D.T., Smith S.L., Campbell R.;

"Complex patterns of intragenic polymorphism
Hum. Genet. 105:452-459(1999).

EMBL; AJ243279; CAB45925.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                  Pongo pygmaeus (Orangutan).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=20065871; PubMed=10598812;
Bonthron D.T., Smith S.L., Campbell R.;
"Complex patterns of intragenic polymorphism
Hum. Genet. 105:452-459(1999).
EMBL; AJ243281; CAB46013.1; -.
NON TER 1 1 1
NON TER 1 1 11
SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Platelet-derived
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Eukaryota, Metazoa,
Mammalia, Eutheria,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PDGFA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Presbytis
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                                                                              Similarity
3; Conserv
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HRSVK 11
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(TrEMBLrel.
(TrEMBLrel.
rived growth
                                                                                   Conservative
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                                                                                                                                                                  1345 MW;
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Primates;
                                                                                                     38.8%;
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12, Last sequence update)
19, Last annotation update)
factor A chain (Fragment).
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12, Last sequence update)
19, Last annotation update)
factor A chain (Fragment).
                                                                            Score 19; DB
Pred. No. 4.8e
1; Mismatches
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                                                                                                                                                                    7FB881F101E1E044
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                                                                                                                            DB 6;
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                                                                                                       8e+03;
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; Pongo.
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RESULT 16
Q80XX0
AC Q80XX
AC Q80XX
DT 01-JU
DT 01-OC
DE Hypox
GN HPRT.
OS Crice
OC Crice
OC Mamma
OC Crice
OC NCBI
RN [1]
RN FUSCO
RA FUSC
RESULT
Q53579
ID Q5
AC Q5
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Q80XX0;
Q80XX0;
Q80XX0;
Q1-JUN-2003 (TrEMBLrel. 24, Cre
r 01-JUN-2003 (TrEMBLrel. 24, Lar
r 01-OCT-2003 (TrEMBLrel. 25, La
r 01-OCT-2003 (TrEMBLrel. 25, La
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Best Local S
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Best Local S
Matches 4
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Q9XSQ4;

Q9XSQ4;

01-NOV-1999 (TrEMBLrel. 12

01-NOV-1999 (TrEMBLrel. 12

01-DEC-2001 (TrEMBLrel. 15

01-Det-derived growth fa
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NON_TER
SEQUENCE 13
Q53579
Q53579;
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Mutat. Res. 269:171-183(1992).
Musat. Res. 269:171-183(1992).
EMBL; S46270; AAP13884.1; -.
GO; GO:0016740; F:transferase activity;
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cricetulus griseus (Chinese hamster).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gorilla gorilla (gorilla).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PDGFA
                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=93024555; PubMed=1383700;
Fuscoe J.C., Zimmerman L.J., Fekete
"Analysis of X-ray-induced HPRT muta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=20065871; PubMed=10598812;
Bonthron D.T., Smith S.L., Campbell R.;
"Complex patterns of intragenic polymorphism Hum. Genet. 105:452-459(1999).
EMBL: AJ243278; CAB45916.1; -.
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3; Conserv
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                                                                                                                          HGVIMD
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3 AA;
                       PRELIMINARY;
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1516 MW;
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1331 MW;
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12, Last sequence update)
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factor A chain (Fragment).
                                                                                                                                                                                                      Score 19; DB Pred. No. 5.7e 0; Mismatches
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transferase (Fragment).
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Pred. No. 4.8e+03;
1; Mismatches 1
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                       PRT;
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5.7e+03;
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; Cricetinae;
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RESULT
Q8RJF1
ID Q8
AC Q8
AC O1
DT 01
DT 01
DT 01
DT 01
OS Pc
OS Ps
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Q9TWX7
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Best Local S
Matches 3
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Best Local :
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          Q8RJF1
Q8RJF1;
Q8RJF1;
Q8RJF1;
01-JUN-2002 (TrEMBLrel. 2)
01-JUN-2002 (TrEMBLrel. 2)
01-JUN-2002 (TrEMBLrel. 2)
porin-like protein (Fragm
Pseudomonas fluorescens.
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Q9TWX7;
Q1-MAY-2000
Q1-MAY-2000
Q1-JUN-2002
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NON TER
SEQUENCE
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"Binding site mapping of a photoaffinity-labeled binding protein.";
Biochem. Biophys. Res. Commun. 182:466-473(1992)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE.

MEDLINE=92134256; PubMed=1734862;

Touhara K., Prestwich G.D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia; Sph
Sphingidae; Sphinginae; Manduca.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rhodobacter capsulatus (Rhodopseudomonas capsulata). Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Rhodobacter.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sphingidae; Sphi
NCBI_TaxID=7130;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  J. Bacteriol. 174:3030-3041(1992)
EMBL; S97551; AAC60405.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bacteria; Proteobacteria;
Rhodobacteraceae; Rhodobac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Juvenile hormone
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3; Conserv
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V
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                                                         (TrEMBLrel. 21, (TrEMBLrel. 21, (TrEMBLrel. 21,
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(TrEMBLrel. 13, Last sequence update)
(TrEMBLrel. 21, Last annotation update)
rmone binding protein, JHBP=4.9 kDa GLU-C peptide
                                                                                                                                                                                                                                                                                                                            Conservative
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AA;
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1023 MW;
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M., Drews G.;
of LHI- and LHI+
                                 (Fragment)
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Gammaproteobacteria; Pseudomonadales;
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                                                                                                                                                                                                                                                                                                                                               Score 17;
Pred. No.
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le+06;
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RESULT 21
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Q93LX4
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    Q9UPE7;
01-MAY-2000
01-MAY-2000
01-DEC-2001
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01-DEC-2001
01-JUN-2003
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STRAIN=NC16-2, TC29-5, and TC97;
TRANSPOSON=Tn5041B1, Tn5041B, and Tn5041D1;
Kholodii G.Y., Gorlenko Z.M., Mindlin S.Z., Nikiforov V.G.;
"Distribution of distinct microvariants of Tn5041 in environmental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (JAN-2003) to the EMBL; AY034431; AAK61370.1; EMBL; AY211526; AAC53341.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Saha A., Haralalka S., Bhadra R.K.; "Cloning and characterization of the origin of replicat chromosome 1 of Vibrio cholerae."; Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (DEC-2001) to the EMBL; AJ422128; CAD19527.1; EMBL; AJ422129; CAD19528.1; EMBL; AJ422130; CAD19529.1; NON_TER 10 10
                                                                                                                              Q9UPE7
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Bacteria, Proteobacteria,
Vibrionaceae, Vibrio.
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NCBI_TaxID=294;
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1; Mismatches
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Created)
Last sequence update)
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O95179;
01-MAY-1999 (TrEMBLrel. 10, Created)
01-MAY-1999 (TrEMBLrel. 10, Last sequence
01-DEC-2001 (TrEMBLrel. 19, Last annotati
Glucose-6-phosphatase hydrolytic subunit
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SEQUENCE FROM N.A.
MEDLINE=99156747; PubMed=10024523;
Wasner C., Hinds C.J.,
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NCBI_TaxID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "A novel human myo-inositol monophosphatase gene, IMP.18p, susceptibility region for bipolar disorder."; Mol. Psychiatry 2:393-397(1997).
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MEDLINE=97463449; PubMed=9322233;
Yoshikawa T., Turner G., Esterling L.E.,
                                                                                                                                                                                                                                                                       "Identification of a cAMP response element within the glucose-6-phosphatase hydrolytic subunit gene promoter which is involved i transcriptional regulation by cAMP and glucocorticoids in H4IIE
                                                                                                                                                                                                                                                                                                                                           Burche]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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EMBL; AF025882; AAD22136.1; -.
EMBL; AF025881; AAD22136.1; JOINI
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Yoshikawa T., Padigaru M., Karkera J.D.,
Esterling L.E., Detera-Wadleigh S.D.;
                                                                                                                                                                                                                                hepatoma cells.",
Biochem. J. 338:4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens (Human)
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IMPA2.
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_TaxID=9606;
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                                                                                                                                                                    1666 MW;
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Primates; (
                                                                                                     34.7%;
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50.0%;
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                                                                                  <u>ب.</u>
                                                                                  Score 17; DB Pred. No. 1.5e
1; Mismatches
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Pred. No.
                                                                                                                                                                    A6B78EEF99F7FD46 CRC64;
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annotation update)
subunit (Fragment).
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1.5e+04;
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RESULT

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RESULT 25
Q9TT31
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Best Local Similarity
Matches 2; Conser
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Best Local
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Q80H91;
01-JUN-2003 (TrEMBLrel. 2:
01-JUN-2003 (TrEMBLrel. 2:
01-JUN-2003 (TrEMBLrel. 2:
HN/HN0 (Fragment).
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EMBL; S69419;
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SEQUENCE
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Q35792,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A. MEDLINE=94175700
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     Q9TT31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=94175786; PubMed=8129624; Collins M.S., Strong I., Alexander D.J.; Collins M.S., Strong I., Alexander D.J.; "Evaluation of the molecular basis of pathogenicity of the variant Newcastle disease viruses termed 'pigeon PMV-1 viruses'."; Arch. Virol. 134:403-411(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Newcastle disease virus.
Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Paramyxovirinae; Rubulavirus.
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NCBI _TaxID=4932;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Paramyxovíridae;
NCBI_TaxID=11176;
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V00694; CAA24063.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       S69419; AAP19628.1;
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(TremBLrel. 01, Last sequence update)
(TremBLrel. 24, Last annotation updaton 3 (Fragment).
                                                                                                                                                                                                                                                                                     Conservative
     PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AA;
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1025 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                              33D4087AA337205B CRC64;
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Last sequence update)
Last annotation updat
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Pred. No. 1e+06;
2; Mismatches
                                                                                                                                                                                                                                                                                                               Score 16; DB 12
Pred. No. 1e+06;
                                                                                                                                                                                                                                                                                  Pred. No. 1e+
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     PRT;
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RESULT
Q91YF5
Q91YF5
Q9
AC
Q9
DT
O1
DT
O1
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O1
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GN
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GN
MU

27

PRELIMINARY;

PRT;

12

3

Q91YF5; Q91YF5; 01-DEC-2001 (; 01-DEC-2001 (; 01-DEC-2001 (; GM3 SYNTHASE. Mus musculus

(Mouse)

(TrEMBLrel. 19, Created)
(TrEMBLrel. 19, Last sequence update)
(TrEMBLrel. 19, Last annotation update)
protein (Fragment).

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RESULT
Q971729
AC Q971729
AC Q971729
AT Q99
AT Q99
AT Q11
DT Q11

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Best Local S
Matches 2
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Q9TT29;
Q9TT29;
Q1-MAY-2000 (TrEMBLrel. 1
01-MAY-2000 (TrEMBLrel. 1
01-DEC-2001 (TrEMBLrel. 1
Beta-globin (Fragment).
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01-MAY-2000
01-MAY-2000
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Callithrix jacchus (Common marmoset).
Eukaryota; Metazoa; Chordata; Craniata; Ver Mammalia; Eutheria; Primates; Platyrrhini;
                                                                                                                                                                                                                                                                                               EMBL; A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Saguinus oedipus (Cotton-top tamarin).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Saguinus.
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EMBL; AF205413; AAF23764.1; -.
NON_TER 1 1
                                                                                                                                                                                                                                                                                                                                                              Primates.";
Mol. Biol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
TISSUE=Blood;
MEDLINE=20188801; PubMed=10723742;
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Francino M.P., Och
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TISSUE=Blood;
                                                                                                                                                                                                                                                             SEQUENCE
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2; Conserv
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nilarity 66.7%;
Conservative
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                                                                                                                              Conservative
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                                                                                                                                                             32.7%;
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19,
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                                                                                                                         Score 16; DB Pred. No. 2.1e 1; Mismatches
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Last sequence update)
Last annotation update)
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1; Mismatches
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ni; Callitrichidae; Callit
                                                                                                                                                                                                 DB 6;
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RESULT 29
Q9LCS
ID Q9LCS
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DT 01-OC
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DT 01-JU
DE Levan
GN SACB.
GN SACB.
OS Bacil
OG Plasm
OC Bacil
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RN [1]
RP SEQUE
RA Maldo
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Q47693
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Q4769
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AC Q4769
AC Q1-NC
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Best Local S
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01-NOV-1996 (TrEMBLrel. 01, C
01-NOV-1996 (TrEMBLrel. 01, I
01-JUN-2003 (TrEMBLrel. 24, I
                                                                                                                                                                                       01-OCT-2000 (TrEMBLrel. 15, 01-OCT-2000 (TrEMBLrel. 15, 01-JUN-2003 (TrEMBLrel. 24, Levan sucrase (Fragment).
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 SEQUENCE FROM N.A.
Maldonado R., Casadesus J.;
"Identification of IS210 in
                                                                                                       Bacillus subtilis.
Plasmid pIZ57.
Bacteria; Firmicutes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Elongation factor;
NON_TER 13
SEQUENCE 13 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.

MEDLINE=82080657; PubMed=7312036;

Hudson L., Rossi J., Landy A.;

"Dual function transcripts specifying
Nature 294:422-427(1981).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
STRAIN=ICR; TISSUE=Brain;
                                                                                                                                                                                                                                                                                                 Q9LCS1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriaceae; Escherichia.
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Mammalia; !
                                                                                    NCBI_TaxID=1423;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (SEP-1998) to
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GO:0003746; F:translation elongation fac
GO:0006412; P:protein biosynthesis; IEA.
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3; Conserv
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Eutheria;
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Rodentia;
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75.0%;
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75.0%;
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Pred. No. 2.1e-
1; Mismatches
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Pred. No. 2.3e+04;
D; Mismatches 1
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Sciurognathi; Muridae; Murinae; Mus
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2.1e+04;
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RESULT 31
Q8ZDW9
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Q8ZDW9;
01-MAR-2002
01-MAR-2002
01-JUN-2003
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Q8L1Y9;
01-OCT-2002
01-OCT-2002
01-OCT-2002
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NON_TER
NON_TER
SEQUENCE
STRAIN=CO-92 / Biovar Orientalis;
MEDLINE=21470413; PubMed=11586360;
Parkhill J., Wren B.W., Thomson N.R., Titball R.W., Holden M.T.
Prentice M.B., Sebaihia M., James K.D., Churcher C., Mungall K.
Prentice M.B., Sebaihia M., James K.D., Churcher C., Mungall K.
Baker S., Basham D., Bentley S.D., Brooks K., Cerdeno-Tarraga A
Chillingworth T., Cronin A., Davies R.M., Davis P., Dougan G.,
Chillingworth T., Hamlin N., Holroyd S., Jagels K., Karlyshev A.V.,
Feltwell T., Hamlin N., Holroyd S., Jagels K., Rutherford K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-OCT-2002 (TrEMBLrel. 22, Created)
01-OCT-2002 (TrEMBLrel. 22, Last sequence
01-OCT-2002 (TrEMBLrel. 22, Last annotati
Proteolysis-inducing tag (Fragment).
Chroccccidiopsis sp. PCC 6712.
Bacteria; Cyanobacteria; Pleurocapsales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        functional insertion element member of the ISS Submitted (SEP-1999) to the EMBL/GenBank/DDBJ EMBL; AJ249381; CAB76429.1; -. GO:0046821; C:extrachromosomal DNA; IEA.
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL;
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Nucleic Acids Res. 30:2025
                                                                                                                               Enterobacteriaceae;
                                                                                                                                          Yersinia pestis.
Bacteria, Proteobacteria,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Williams K
                                                                                               SEQUENCE FROM N.A.
                                                                                                                    NCBI_TaxID=632;
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                                                                                                                                                                                                                                                                                                                                                                                                  1607 MW;
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75.0%;
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50.0%;
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RESULT 33
Q9UR18
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Q9N6M5
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Matches 4
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STRAIN=RH, COUGAR TC751G34, SE
Lehmann T., Blackston C.R., Pa
"Strain Typing of Toxoplasma g
Housekeeping Genes.";
J. Parasitol. 0:0-0(2000).
  Q9UR18
Q9UR18;
01-MAY-2000
01-MAY-2000
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J. Bacteriol. 184:4601-4611(2002).

EMBL; AJ414152; CAC91234.1; -.

EMBL; AE013793; AAM85473.1; -.

PIR; AF0296; AF0296.

GO; GO:0004812; F:tRNA ligase activity; IEA.
Aminoacyl-tRNA synthetase; Complete proteome.
SEQUENCE 14 AA; 1813 MW; 6141D61506FEF0D4
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EMBL; AF249695; AAF79153.1;

EMBL; AF249692; AAF79150.1;

EMBL; AF249693; AAF79151.1;

EMBL; AF249694; AAF79152.1;
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01-OCT-2000 (TrEMBLrel.
01-OCT-2000 (TrEMBLrel.
Diydrofolate reductase
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Alveolata;
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larity 57.1%;
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Biovar Mediaevalis;
7863; PubMed=12142430;
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15, Last sequence update)
15, Last annotation update)
thymidylate synthase (Fragment).
13,
Created)
Last seq
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                                                                                                                                                                                                                                                                                                                                                            Score 15; DB 5; Pred. No. 1e+06; 0; Mismatches
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Pred. No. 2.4e+04;
0; Mismatches 3;
sequence update)
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S., Blattner F.F
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RESULT 35
Q9UR95
ID Q9UR95;
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DT 01-MAY-2000 (
DT 01-JUN-2000 (
DT 01-JUN-2000 (
DT Heat shock pr
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STRAIN=DE-2, and DE-1;
Couch B.C., Kohn L.M.;
Couch B.C., Kohn L.M.;
"Clonal spread of Sclerotium cepivorum in cevidence of past recombination events.";
submitted (JUN-1999) to the EMBL/GenBank/DEEMBL; AF163671; AAD46912.1; -.
EMBL; AF163670; AAD46911.1; -.
GO; GO:0003746; F:translation elongation fa
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NON_TER 1
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SEQUENCE 9 AA; 1:
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Hypothetical protein.
NON TER 11 11
SEQUENCE 11 AA; 1322
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Yamada M., Yanai S., Talkuder A.;
Yanalysis of products of the Escherichia coli g
regulation of their expressions: an applicable
analysis of other microorganisms.";
Biosci. Biotechnol. Biochem. 58:117-120(1994).
EMBL; D21151; BAA04692.1; -.
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Translation elongation
EF1-ALPHA.
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Eukaryota;
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protein 60 homolog (Fragment).
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Pred. No. le+C
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RESULT 37
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Q9UNL
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Harder W., Veenhuis M.,
"Affinity purification of molecular chap
polymorpha using immobilized denatured a.
FEBS Lett. 321:32-36(1993).
SEQUENCE 11 AA; 1230 MW: 7107777777
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Eukaryota; Metazoa; C
Mammalia; Eutheria; P
NCBI TaxID=9606;
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Q16234;
Q1-NOV-1996
Q1-NOV-1996
Q1-JUN-2003
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01-MAY-2000
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Bukaryota; Fungi; Ascon
Saccharomycetales; Sacc
SEQUENCE FROM N.A. MEDLINE=94349312; Sekido Y., Bader S
                                                                                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
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             S.A.,
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Ascomycota; Saccharomycotina;
; Saccharomycetaceae; Pichia.
         PubMed=8069866;
S.A., Carbone D.P.,
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Primates;
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Catarrhini;
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Catarrhini;
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i; Hominidae;
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             J.D.;
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RESULT 39
Q8MEM2
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Q8MEL7
 RRRA OCCOGO OCT
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Matches 3
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Best Local S
Matches 2
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Q8MEM2;
01-OCT-2002
01-OCT-2002
01-JUN-2003
                                                                                                                                                                                                                                                                                                      GO; GU..
Chloroplast.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q8MEL7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Molecular analysis of the HuD gene encephalomyelitis antigen in human l Cancer Res. 54:4988-4992(1994).
EMBL; S73887; AAD14142.1; -.
PIR; I52708; I52708.
NON_TER 11 11
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01-OCT-2002 (TrEMBLrel. 22, Last
01-JUN-2003 (TrEMBLrel. 24, Last
Ribosomal protein 16 (Fragment).
                                              Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosiceurosids II; Malvales; Malvaceae; Malvoideae; Lagunaria.
                                                                                                                                                                                                                                                                                            NON_TER
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Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eueurosids II; Malvales; Malvaceae; Malvoideae; Sida.
                                                                                                                                                                                                                                                                                                                                   EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   RPL16.
Sida hookeriana.
         SEQUENCE FROM N.A.
Pfeil B.E., Brubak
                                NCBI_TaxID=183274;
                                                                           Lagunaria pa
Chloroplast
                                                                                               RPL16.
                                                                                                        Ribosomal
                                                                                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                           Pfeil B.E., Brubaker C.L., "Phylogeny of Hibiscus and chloroplast DNA sequences o Syst. Bot. 27:333-350(2002)
                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=108446;
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Pfeil B.E.,
"Phylogeny o
                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
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11 AA;
of Hibiscus
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(TrEMBLrel.)
(TrEMBLrel.)
protein 16 (Fr.)
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H
Craven L.F
the tribe
                                                                                                                                                                                                                                                                                                                                                    Craven L.A., Crisp M.D.;
the tribe Hibisceae (Malvaceae)
of ndhF and the rpl16 intron.";
                                                                                                                  Last
Last
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Pred. No. 3e+0
2; Mismatches
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e Hibisceae
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lung cancer
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3e+04;
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cell lines.";
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 (Malvaceae)
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D.;
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(Malvaceae)

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RESULT

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Matches 3
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Best Local S
Matches 3
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Q8MEP0;
01-OCT-2002
01-OCT-2002
01-JUN-2003
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NON_TER
NON_TER
SEQUENCE 11
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Chloroplast.
NON_TER
NON_TER
SEQUENCE 11
                                      Chloroplast.
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosid
eurosids II; Malvales; Malvaceae; Malvoideae; Hibiscus.
NCBI_TaxID=183256;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q8MES5;
                                                                                                                                                                                                      RPL16.
Hibiscus peralbus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      chloroplast DNA sequences of no Syst. Bot. 27:333-350(2002).
EMBL; AF384561; AAM50399.1; -. GO; GO:0009507; C:chloroplast;
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01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Ribosomal protein 16 (Fragment).
    SEQUENCE FROM N.A. Pfeil B.E., Brubak
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              chloroplast DNA sequences of no
Syst. Bot. 27:333-350(2002).
EMBL; AF384616; AAM50388.1; -.
GO; GO:0009507; C:chloroplast;
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Phylogeny of Hibiscus and
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  Craven L.A.,
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                                                                                                                                                                                                                                                                                                                                     Created)
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Pred. No. 3e+0
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(Malvaceae)
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Chloroplast.
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SEQUENCE 11
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01-OCT-2002
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NON_TER
SEQUENCE
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosid
eurosids II; Malvales; Malvaceae; Dombeyoideae; Dombeya.
                                                                     Eukaryota; Viridiplantae; Streptophyta; Embryo
Spermatophyta; Magnoliophyta; eudicotyledons;
eurosids II; Malvales; Malvaceae; Malvoideae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Phylogeny of Hibiscus and the chloroplast DNA sequences of nd Syst. Bot. 27:333-350(2002).
EMBL; AF384598; AAM50370.1; -. GO; GO:0009507; C:chloroplast;
SEQUENCE FROM N.A.
                                                                                                                                                                                                                             Ribosomal
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                                          NCBI_TaxID=183226;
                                                                                                                                                                           Alyogyne pinoniana.
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L; AF384569; AAM50407.1; -.
GO:0009507; C:chloroplast;
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3; Conserv
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02 (TrEMBLrel. 22, Last sequence update)
03 (TrEMBLrel. 24, Last annotation update)
protein 16 (Fragment).
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(TrEMBLrel.)
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el. 22, Last sequence update)
el. 24, Last annotation updat
(Fragment).
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0; Mismatches
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Pred. No.
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3e+04;
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                                                                   Embryophyta; Tracheophyta; edons; core eudicots; rosidideae; Alyogyne.
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Length 11;

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Gaps

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RESULT 44
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Q8MEP3
AC Q8MEP
DT 01-OC
DT 01-OC
DT 01-OC
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CHIDS:
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OC CHIDS:
OC CHICS:
OC Sperm
OC Spe
RESULT 45
Q8MEQ7
ID Q8MEQ
AC Q8MEQ
DT 01-OC
DT 01-JU
DE Ribos
GN RPL16
OS Hibis
OG Eukal
OC Sperm
OC euros
OX NCBI
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"Phylogeny of
chloroplast DN
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Chloroplast.
NON TER
NON TER
Chloroplast.
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Malvales; Malvaceae; Malvoideae; Hibiscus.
NCBI_TaxID=183239;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pfeil B.E., Brubaker C.L., Craven L.A., Crisp M.D.; "Phylogeny of Hibiscus and the tribe Hibisceae (Malvaceae) chloroplast DNA sequences of ndhf and the rpl16 intron."; Syst. Bot. 27:333-350(2002).

EMBL; AF384595; AAM50367.1; -.
GO; GO:0009507; C:chloroplast; IEA.
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosid eurosids II; Malvales; Malvaceae; Malvoideae; Hibiscus.
                                                                                                                                               RPL16.
Hibiscus drummondii.
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01-OCT-2002 (TrEMBLrel. 22,
01-OCT-2002 (TrEMBLrel. 22,
01-JUN-2003 (TrEMBLrel. 24,
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01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation updat
Ribosomal protein 16 (Fragment).
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3; Conserv
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3; Conservative
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75.0%;
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Pred. No. 3e+04;
0; Mismatches
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Pfeil B.E., Brubaker C.L., Craven L.A., Crisp M.D.;

Phylogeny of Hibiscus and the tribe Hibisceae (Malvaceae)

"Phylogeny of Hibiscus and the rpl16 intron.";

chloroplast DNA sequences of ndhF and the rpl16 intron.";

Syst. Bot. 27:333-350(2002).

EMBL; AF384581; AAM50353.1; -.

GO; GO:0009507; C:chloroplast; IEA.
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Search completed: August 30, 2004, 10:55:09
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\$2000 (Rel. 39, Created)

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Pigeon pea witches'-broom phytoplasma Bacteria; Firmicutes; Mollicutes; Acho Acholeplasmataceae; Phytoplasma.

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	38.8%; 100.0%; ative	hondr 1 8 9 MW;		័យដូច	quences s rm."; 230:235-2	SUE=Liver; PubMed=7601105; k H., Halangk W., Brandt ase in developing rat he	(Rat). ; Chordata; ; Rodentia;	Created) Last sequentiast annot polypeptide	RD;			111111111111111111111111111111111111111
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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InterPro; IPR002222; Ribosomal_S19.
PROSITE; PS00323; RIBOSOMAL_S19; PARTIAL.
Ribosomal protein; rRNA-binding.
NON_TER 1 1
                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Brain;
MEDLINE=91219696; PubMed=2132575;
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-!- SIMILARITY: Belongs to the S19P family of ribosomal proteins.
                                                                                                                                                                                                                                                                                                                                                                                                          Schoofs L., Holman de Loof A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Locusta migratoria (Migratory locust).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Orthopteroidea; Orthoptera; Caelifera; Acridomorpha;
Acridoidea; Acrididae; Oedipodinae; Locusta.
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[1]
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01-APR-1993 (Rel. 25, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
cocustatachykinin IV (TK-IV)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE.
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SUBCELLULAR LOCATION: Secreted.
SIMILARITY: SOME SIMILARITY TO TACHYKININS
                                                                                                                                                                                                                                                                                                             FUNCTION:
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RESULT
ANGEL
RESULT 5
GER1_HORVU
ID GER1_H
AC P28525
DT 01-DEC
DT 01-DEC
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DE Germin
OS Hordeu
OC Sukary
OC Sperma
OC Tritic
OX NCBI_T
RN (1)
RP SEQUEN
RC STRAIN
RA Hurkma
RT stress
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A Skeggs L.T. Jr., Kahn J.R., Lentz K., Shumway N.P.;

IT polypeptide renin substrate.";

IT polypeptide renin substrate.";

IL J. Exp. Med. 106:439-453(1957).

C -i. FUNCTION: In response to lowered blood pressure, the enzyme renin cleaves angiotensin I, from angiotensinogen. ACE (angiotensin C converting enzyme) then removes a dipeptide to yield the converting enzyme) then removes a dipeptide to yield the physiologically active peptide angiotensin II, the most potent C pressor substance known, which helps regulate volume and mineral chalance of body fluids.

C -i. SUBCELLULAR LOCATION: Secreted.

C -i. TISSUE SPECIFICITY: Expressed by the liver and secreted in plasma.

C -i. SIMILARITY: Belongs to the serpin family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -ANGT_HORSE
P01016;
21-JUL-1986
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P28525;
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                                                                                                                                                                       Hordeum vulgare (Barley).

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae;
Triticeae; Hordeum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PIR;
PDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Equus caballus (Horse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
                    STRAIN=cv. CM 72; TISSUE=Root;
Hurkman W.J., Tao H.P., Tanaka C.K.;
"Germin-like polypeptides increase i
                                                                                                                                                                                                                                                                01-DEC-1992 (Rel. 24, Created)
01-DEC-1992 (Rel. 24, Last sequence up
16-OCT-2001 (Rel. 40, Last annotation
Germin GS1 (Fragment)...
                                                                        SEQUENCE.
STRAIN=cv.
                                                                                                                                         Triticeae; Hordeum.
NCBI_TaxID=4513;
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10-OCT-2003
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2; Conserv
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    O1, Created)
    O1, Last sequence update)
    42, Last annotation update)
    [Contains: Angiotensin I (Ang I); Angiotensin I (II (Ang III) (Des-Asp[1]-angiotensin II)]

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Pred. No. 1
2; Mismatcl
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ANGIOTENSIN II.
ANGIOTENSIN III.
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                            barley roots
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                                                    UNSURE
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PROSITE; PS00725; GERMIN; PARTIAL.
Apoplast; Cell wall; Glycoprotein;
UNSURE 10 10
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Hurkman W.J., Tao H.P., Tanaka C.K.
"Germin-like polypeptides increase
                                                                                                                                                                                                                                                                                Hordeum vulgare (Barley).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NON
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                                                                                                                                                                                                                                                SEQUENCE.
                                                                                                                                                                                                                                                               NCBI_TaxID=4513;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUBCELLULAR LOCATION: SOLUBLE, MICROSOMAL AND CELL WALL FRACTIONS. TISSUE SPECIFICITY: Roots and coleoptile. In roots, present in the mature region, but not in the tip. Not detected in leaves. INDUCTION: Increased by sait stress in roots and decreased by salt stress in coleoptile.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PTM: Glycosylated.
SIMILARITY: Belongs to the germin
erPro; IPR001929; Germin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FUNCTION: May play a role in altering walls during germinative growth.
SUBUNIT: Oligomer (believed to be a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (By similarity)
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                  Similarity 2; Conserv
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                          30.6%;
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Last annotation update)
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                Score 15; DB
Pred. No. 4.8e
2; Mismatches
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Pred. No. 4.8e
2; Mismatches
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coleoptile. In roots, present
tip. Not detected in leaves.
stress in roots and decreased b
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Holman G.M., Cook B.J., Nachman R.J.;
"Primary structure and synthesis of two additional neur
from Leucophaea maderae: members of a new family of
Cephalomyotropins.";
Comp. Biochem. Physiol. 84C:271-276(1986).
-!- FUNCTION: This cephalomyotropic peptide stimulates
activity of cockroach protodeum (hindgut).
-!- SUBCELLULAR LOCATION: Secreted.
                                                              Neuropeptide;
MOD_RES
MOD_RES
                                                                                                                                                                                                                                                                                                                                                                            LEUMA
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Eukaryota; Metazoa; Arthropoda;
Neoptera; Orthopteroidea; Dictyc
Blaberidae; Leucophaea.
NCBI_TaxID=6988;
                                                                                               MEDLINE=87052651; PubMed=2877794;
Holman G.M., Cook B.J., Nachman R.J.;
"Isolation, primary structure, and synthesis of leucoki myotropic peptides of Leucophanaderae.";
Comp. Biochem. Physiol. 88C:27-30(1987).
-!- FUNCTION: This cephalomyotropic peptide stimulates activity of cockroach protodeum (hindgut).
-!- SUBCELLULAR LOCATION: Secreted.
PIR; JS0316; JS0316.
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01-MAY-1991 (Rel. 18, Created)
01-MAY-1991 (Rel. 18, Last sequence up
10-OCT-2003 (Rel. 42, Last annotation
Leucokinin IV (L-IV)
                                                                                                                                                                                                                                                                  01-FEB-1991 (Rel. 17, Created)
01-FEB-1994 (Rel. 28, Last sequence up:
10-OCT-2003 (Rel. 42, Last annotation the Leucokinin VI (L-VI).
Leucophaea maderae (Madeira cockroach)
Eukaryota; Metazoa; Arthropoda; Hexapoone Neoptera; Orthopteroidea; Dictyoptera;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Neuropeptide; Amidation.
MOD_RES 8 8
SEQUENCE 8 AA; 906 MW
                                               SEQUENCE
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VCBI_TaxID=6988;
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     Similarity 2; Conserv
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nilarity 100.0%;
Conservative
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                                                                                    Amidation;
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J.0%;
O;
                                                  Pyrrolidone carboxylic acid.
PYRROLIDONE CARBOXYLIC ACID.
AMIDATION.
, 9D6365B1E9D5A5A6 CRC64;
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DC6365B1E9D5BDDA
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    Score 14; DB 1;
Pred. No. 1.4e+(
0; Mismatches
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Pred. No. 1.4e+05;
D; Mismatches 0;
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optera; Blattaria; F
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ptera; Blattaria; I
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Blaberoidea;
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MOD_RES
UNSURE
SEQUENCE 9 A
                                                                                                      and Theropithecus gelada): their amino acid a evolutionary rates and a molecular phylogeny J. Biochem. 94:1973-1978(1983).
                                                                                                                                                    SEQUENCE.

MEDLINE=84161822; PubMed=6423621;

Nakamura S., Takenaka O., Takahashi K.;

Nakamura S., Takenaka O. Takahashi K.;

"Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas,

"Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas,

"Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas,

"Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas,

"Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas,

"Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas,

"Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas,

"Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas,

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"Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas,

"Fibrinopeptides A and B of baboons (Papio anubis, Papio hamadryas,

"Fibrinopeptides A anubis (Papio anubis, Papio anubis, Pap
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Arthropoda; Hexapoda; Neoptera; Endopterygota; Diptera; Brachyce Calliphoridae; Calliphora.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CALVO
                                                                                                                                                                                                                                                                                       Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Butheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Papio.
MCBI_TaxID=9557;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     neuropeptides (designated calliFMRFamides)
Calliphora vomitoria.";
Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE=Thoracic ganglion;
MEDLINE=92196111; PubMed=1549595;
Duve H., Johnsen A.H., Sewell J.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rehfeld
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P19343;
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Rehfeld J.F., Thorpe A.;
"Isolation, structure, a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=27454;
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                                                                                                                                                                                                                                                                                                                                                                            Papio hamadryas (Hamadryas baboon)
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10-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                       Fibrinogen
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1-NOV-1995 (Rel.
1-NOV-1995 (Rel.
FUNCTION: Fibrinogen has a double functi polymerize into fibrin and acting as a caggregation.
SUBUNIT: HEXAMER CONTAINING 2 SETS OF 3 (ALPHA, BETA AND GAMMA), LINKED TO EACH PTM: Conversion of fibrinogen to fibrin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             family.
A44787; A44787
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n beta chain |
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16, Last sequence update)
. 42, Last annotation update)
chain [Contains: Fibrinopeptide
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1; Mismatches
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OR S OR A.
29D00699CAB40457 CRC64;
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Brachycera; Muscomorpha; Oestroidea;
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                                                                                   function: yielding monomers
as a cofactor in platelet
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 NONIDENTICAL CHAINS OTHER BY DISULFIDE BONDS. is triggered by thrombin,
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PROSITE; PS00514; FIBRIN AG C DOMAIN; PARTIAL
Blood coagulation; Plasma.
                                                                                                                                                                                                                                                                                                                                                                                                                                          -!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Expressed by the liver
-!- SIMILARITY: Belongs to the serpin family.
PIR; A90345; A90345.
EDB; 3ER5; 15-JUL-92.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Angiotensinogen [Contains: Angiotensin I (Ang I); Angiotensin II); Angiotensin III (Ang III) (Des-Asp[1]-angiotensin II)]
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Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Elliott D.F., Peart W.S.;
"The amino acid sequence in Biochem. J. 65:246-254(1957)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
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                                                                                                                                                                                                                                                                                                                                        BULLAB
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FUNCTION: In response to lowered blood pressure, the enzymetrion in response to lowered blood pressure, the enzymeruses angiotensinogen. ACE (angiot cleaves angiotensin I, from angiotensin et a yield the converting enzyme) then removes a dipeptide to yield the physiologically active peptide angiotensin II, the most pressor substance known, which helps regulate volume and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      which cleaves fibrinopeptides A and B from alpha and and thus exposes the N-terminal polymerization sites for the formation of the soft clot. E28854, E28854.
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balance of body fi
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Similarity 100.0%;
2; Conservative (
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                                                                                                                                                                                                             28.6%;
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XX MEDLINE=95324529; PubMed=7601105;

XSchaegger H., Noack H., Halangk W., Brandt U., von Jagow G.;

T "Cytochrome-c oxidase in developing rat heart. Enzymic properties and manino-terminal sequences suggest identity of the fetal heart and the T adult liver isoform.";

Eur. J. Biochem. 230:235-241(1995).

-!- FUNCTION: This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.

!-!- CATALYTIC ACTIVITY: 4 ferrocytochrome c + O(2) = 4 ferricytochrome c + 2 H(2)O.
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Matches 2
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VK_LOCMI STANDARD; PRT; 10

PVK_LOCMI STANDARD; PRT; 10

C P83382;

C P83382;

I 28-FEB-2003 (Rel. 41, Created)

I 28-FEB-2003 (Rel. 41, Last sequence upda

I 28-FEB-2003 (Rel. 41, Last annotation up

E Periviscerokinin (Lom-PVK-1).
Neuropeptide;
MOD_RES 1
SEQUENCE 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   P80431;
01-NOV-1995 (
01-NOV-1995 (
28-FEB-2003 (
Cytochrome c
                                                                   999---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NON TER
                                                                                                                                                                                                        Predel R., Gaede G.;
"Identification of the abundant neuropeptide perisympathetic organs of locusts.";
Peptides 23:621-627(2002).
-!- FUNCTION: Myotropic peptide; increases the contraction of the heart and stimulates a
                                                                                                                                                                                                                                                                                                                                             SEQUENCE, FUNCTION, AND MASS SPECTROMETRY. TISSUE=Abdominal perisympathetic organs; MEDLINE=21896327; PubMed=11897380;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Locusta migratoria (Migratory locust).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Orthopteroidea; Orthoptera; Caelifera; Acridomorpha
Acridoidea; Acrididae; Oedipodinae; Locusta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oxidoreductase; Mitochondrion. NON_TER 10 10
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=10116;
                                                             MASS SPECTROMETRY: MW=1104.5; METHOD=MALDI. GO:0005576; C:extracellular; IDA. GO:0005184; F:neuropeptide hormone activity; GO:0007218; P:neuropeptide signaling pathway;
                                                                                                                                                            foregut.
SUBCELLULAR LOCATION: Secreted
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S65387; S6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    φ
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(Rel. 41,
oxidase p
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   AA;
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1105 MW;
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, Last annotation update)
polypeptide VIIb, mitochondrial (EC 1.9.3.1)
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Pred. No.
39811269D6D9C728
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                          AMIDATION
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Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    update)
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                                                                                                                                                                                                          amplitude and tonus of the
                                                                                                                                                                                                                                                                                                      from
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CRC64;
                                                                                                                                                                                                                               frequency
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Enzymic properties and
he fetal heart and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 10;
                                                       IDA.
IDA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Acridomorpha;
                                                                                                                                                                                                                                                                                                      abdominal
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; Murinae; Rat
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Query Match

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Length

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SEQUENCE

10 AA;

1243

MW;

DAD39A33304B5339

CRC64

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RESULT 15
UXA6_CHLTR
ID _UXA6_C
AC _P380_T
AC _P380_T
DT _01-OCT
RA _CALL
RA _SEQUEN
RC _1- MI
CC _-1- MI
CC _
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TRP8_LE
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Best Local S
Matches 2
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                                                                                                                                                                                                                                                                                                                                    P38007;
01-OCT-1994
01-OCT-1994
30-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P81740;
30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Tachykinin-related peptide 8 (LemTRP 8).
Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta;
Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blaberidae; Leucophaea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOD_RES
SEQUENCE
                                                                                                                                                                                                                                                                    01-OCT-1994 (Rel. 30, Created)
01-OCT-1994 (Rel. 30, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation updat
Unknown protein from 2D-page from elementar
Chlamydia trachomatis.
Bacteria; Chlamydiae; Chlamydiales; Chlamyd
                                       Submitted (SEP-1994) to Swiss-Prot.
-!- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PROTEIN IS: 6.44, ITS MW IS: 38.6 kDa.
Siena-2DPAGE; P38007; -.
                                                                                                                        Pallini V.
                                                                                                                                                             STRAIN=L2/434/Bu;
Bini L., Santucci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=97269266; PubMed=9114447;
Muren J.E., Naessel D.R.;
"Seven tachykinin-related peptides isolated from madeira cockroach; evidence for tissue-specific e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LEUMA
                                                                                                                                             Comanducci M.,
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                                                                                                                                                                                                             SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tachykinin; Neuropeptide; Amidation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -!- MASS SPECTROMETRY: MW=1076.9; METHOD=MALDI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Brain.
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                                                                                                                                                                                                                                                   NCBI_TaxID=813;
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2; Conserv
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3; Conserv
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Christianen
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1; Mismatches
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Pred. No.
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9E410371E9C87685 CRC64;
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                                                                                                                                               Marzocchi
Birkelund
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elementary
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                                                                                                                                                                                                                                                                                                               pody
                                                                                                                                             Sanchez-Campillo M., Vtretou E., Ratti G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 10,
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RESULT 17
EFG_CLOPA
ID EFG_C
ID F8135
AC P8135
DT 15-JU
DT 15-JU
DT 28-FE
DE Elong
GN FUSA.
OS Clost
OC Clost
OC Clost
OC NCBI
RN [1]
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RC STRAI
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COXA_CANFA
ID __COXA_C
AC __COXA
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Best Local S
Matches
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Best Local S
Matches 3
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P81350;
15-JUL-1998 (
15-JUL-1998 (
28-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COXA CAN
Flengsrud R., Skjeldal L.;
"Two-dimensional gel electrophoresis separation and sequence analysis of proteins from Clostridium paste Electrophoresis 19:802-806(1998).
                                                                                                                                                                                                                  Clostridium pasteurianum.
Bacteria; Firmicutes; Clostridia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 c + 2 H(2)O.

c + 2 H(2)O.

-!- SUBCELLULAR LOCATION: Mitochondrial inner membrane.

-!- SIMILARITY: Belongs to the cytochrome c oxidase Valence P99501; DOG.

InterPro; IPR003204; Cyt c ox5A.

Pfam; PF02284; COX5A; 1.

Oxidoreductase; Heme; Mitochondrion; Inner membrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE.
TISSUE=Heart;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COX5A.
Canis familiaris (Dog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae;
                                                            MEDLINE=98291870;
Flengsrud R., Skje
                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
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15-JUL-1998
30-MAY-2000
                                                                                                          STRAIN=W5;
                                                                                                                                                                                                                                                               FUSA.
                                                                                                                                                                      NCBI_TaxID=1501;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "HSC-2DPAGE and the two-dimensional dog heart proteins.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=98163340;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  lectrophoresis 18:2795-2802(1997).
!- FUNCTION: This is the heme A-co
oxidase, the terminal oxidase i
!- CATALYTIC ACTIVITY: 4 ferrocyto
                                                                                                                                                                                                 .ostridium.
                                                                                                                                                                                                                                                                                ongation
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2; Conservative
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3; Conserv
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8 (Rel.
3 (Rel.
factor
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(Rel.
(Rel.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (Rel. 36, Last sequence update) (Rel. 39, Last annotation updat oxidase polypeptide Va (EC 1.9)
                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
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36, Last
41, Last
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t J.M., Wheeler C.H.;
                                                                                        PubMed=9629918;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1274 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28.6%;
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                                                                                                                                                                                                                                                                             sequence update)
annotation update)
(CP 5) (Fragment).
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Pred. No. 6.4e
2; Mismatches
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                                                                                                                                                                                                                    Clostridiales;
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(EC 1.9.3.1)
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                     pasteurianum
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eurianum W5.
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RESULT 19
UH03_RAT
ID UH03_RAT
ID UH03_RAT
AC P56572;
DT 15-DEC-1998 (
DT 15-MAR-2004 (
DT 15-MAR-2004 (
DE Unknown prote
OS Rattus norveg
OC Eukaryota; Me
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LICH_BACLI
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Best Local S
Matches 2
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Best Local S
Matches 2
         15-DEC-1998 (Rel. 37, Created)
15-DEC-1998 (Rel. 37, Last sequence update)
15-MAR-2004 (Rel. 43, Last annotation update)
Unknown protein from 2D-page of heart tissue
Rattus norvegicus (Rat)
                                                                                                                                                                                                                                                            produced by a selected rumen k
Thesis (1999), National Dairy
-!- FUNCTION: OXYGEN LABILE BA
ACTIVITY.
                                                                                                                                                                                                                                                                                                                                                     PubMed=11576300;
Pattnaik P., Kaushik J.K., Grover S., Batish V.K.;
"Purification and characterization of a bacteriocin-like con (Lichenin) produced anaerobically by Bacillus licheniformis from water buffalo.";
T. Appl. Microbiol. 91:636-645(2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-OCT-2001
16-OCT-2001
28-FEB-2003
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P82907;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ribosome.
-!- SUBCELLULAR LOCATION: C
-!- SIMILARITY: Belongs to
EF-G/EF-2 subfamily.
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  Eukaryota; Metazoa;
                                                                                                                                                                                                                                       -!- SUBCELLULAR LOCATION: Secreted.
Antibiotic; Bacteriocin.
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Bacteria; Firmicutes; Bacillales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
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the nascent protein chain from the A-site to the P-site of the
                                                                                                                                                                                                                                                                                                                      Pattnaik
                                                                                                                                                                                                                                                                                                                               STRAIN=26L-10/3RA;
                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=1402;
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PS00301; EFACTOR_GTP; PARTIAL.
on factor; Protein biosynthesis;
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12 AA; 1414
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ilarity 100.0%;
Conservative
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40, Last sequence 41, Last annotation
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  Chordata; Craniata; Vertebrata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28.6%;
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o the GTP-binding
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bacterial isolate.";
y Research Institute / Karnal
BACTERIOCIN-LIKE. HAS ANTIBAC
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   Euteleostomi;
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                        (Fragment).
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01-JAN-1990 (Rel. 1
01-JAN-1990 (Rel. 1
10-CCT-2003 (Rel. 4
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Li X.-P., Pleis
Jungblut P.R.;
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                                                                            ACT_SITE
NON_TER
SEQUENCE
                                                                                                                                                                                                                    mapping.";
Biochem. J
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                                                                                                                                                                                                                                       MEDLINE=90104230; PubMed=2604694;
Vangrysperre W., Ampe C., Kersters-Hilderson H., Tempst F
"Single active-site histidine in D-xylose isomerase from
violaceoruber. Identification by chemical derivatization
                                                                                                                                                                                                                                                                                                                                                                                                               XYLA_
                                                                                                 NON_
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STRAIN=LMG 7183;
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NCBI_TaxID=1935;
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                                                                                                                                                HAMAP; MF_00455; -; 1.
InterPro; IPR001998; Xylose_isom
                                                                                                                                                                                                Biochem. J. 263:195-199(1989).
-!- CATALYTIC ACTIVITY: D-xylose = D.
-!- COFACTOR: Binds 2 magnesium ions
                                                                                                                                                                                                                                                                                                                                  Bacteria;
                                                                                                                                                                                                                                                                                                                                          Streptomyces violaceoruber.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             UNSURE
                                                                                                                    somerase;
                                                                                                                                                                             SUBUNIT: Homotetramer.
SUBCELLULAR LOCATION: Cytoplasmic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mitted (SEP-1998) to Swiss-Prot. MISCELLANEOUS: On the 2D-gel the
                                                                                                                                                                  SIMILARITY: Belongs to the
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3; Conserv
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PS00173; XYLOSE_ISOMERASE_2; PARTIAL.
e; Pentose shunt; Xylose metabolism; Metal-binding;
                  FH 3
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Pleissner K.-P., Scheler
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12 AA;
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                                     28.6%; So ilarity 100.0%; 1 Conservative 0;
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                                                                                                                                                                                                                                                                                                                      bacteria; Actinobacteridae; Actinomycetales; Streptomycetaceae; Streptomyces.
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. 42, Last annotation updat
(EC 5.3.1.5) (Fragment).
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1375 MW;
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                                     Score 14; DB 1; Louis Pred. No. 6.9e+03; 0; Mismatches 0;
                                                                             E749268EB1AAAAA1 CRC64;
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9e+03;
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BS43_SERPL ID BS43_SERPL

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RESULT 23
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RESULT 21

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28-FEB-2003 (Rel. 41, Created)

28-FEB-2003 (Rel. 41, Last sequence update)

28-FEB-2003 (Rel. 41, Last annotation updat

Bacteriocin serracin P 43 kDa subunit (Frag
                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=92082847; PubMed=1747388;
Favrel P., Kegel G., Sedlmeier D., Keller R., van Wormh
"Structure and biological activity of crustacean gastro
peptides identified with antibodies to gastrin/cholecys
Biochimie 73:1233-1239(1991).
-!- FUNCTION: May control digestion processes in crusta
-!- SIMILARITY: Belongs to the gastrin/cholecystokinin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                D1 NEPNO STANDARD; PRT; 9
P24816;
01-MAR-1992 (Rel. 21, Created)
01-MAR-1992 (Rel. 21, Last sequence updated)
01-MAR-1992 (Rel. 21, Last annotation upour control of the co
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STRAIN=J7
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Nephropoidea; Nephropidae;
NCBI_TaxID=6829;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nephrops norvegicus (Norway lobster)
Eukaryota; Metazoa; Arthropoda; Crus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antibiotic; Bacteriocin.
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-i- FUNCTION: Major component of a prophage tail sheath (Probab.)
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Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
                                                                                                                                                                                                                                                                                 SEQUENCE
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                                                                                                                                                                                                                                                                                                                                               PIR; S47432; S47432.
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Decapoda; Pleocyemata; Astacid
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Pred. No. 1.4e
1; Mismatches
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01-NOV-1995 (
01-NOV-1995 (
01-NOV-1995 (
                                                                                                                                    Neuropeptide;
MOD_RES
SEQUENCE 9 A
                                                                                                                                                                                                                                                                                    TISSUE=Thoracic ganglion;
MEDLINE=92196111; PubMed=1549595;
Duve H., Johnsen A.H., Sewell J.C., Scott A.G., Orchard I.,
Rehfeld J.F., Thorpe A.;
"Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH2
neuropeptides (designated callifMRFamides) from the blowfly
Calliphora vomitoria.";
Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
-!- FUNCTION: Able to induce fluid secretion from the isolat
salivary gland of Calliphora.
-!- SIMILARITY: Belongs to the FARP (FMRFamide related pepti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE=Thoracic ganglion;
MEDLINE=92196111; PubMed=1549595;
Nouve H., Johnsen A.H., Sewell J.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Calliphora vomitoria (Blue blowfly).

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oe
Calliphoridae; Calliphora.

NCBI_TaxID=27454;
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Rehfeld J.F., Thorpe A.;
"Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH2 neuropeptides (designated calliFMRFamides) from the blowfly Calliphora vomitoria.";
Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
-i.- FUNCTION: Able to induce fluid secretion from the isolat salivary gland of Calliphora.
-i.- SIMILARITY: Belongs to the FARP (FMRFamide related pepti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea; Calliphoridae; Calliphora.

NCBI_TaxID=27454;
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01-NOV-1995 (Rel.
01-NOV-1995 (Rel.
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Calliphora vomitoria (Blue blowfly).
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Similarity 2; Conserv
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                                                                                                                                    e; Amidation.
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9 AA; 1128 MW;
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29D00699CAB6C6C7 CRC64;
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29D00699CAB6C5A7 CRC64;
Score 13; DB 1;
Pred. No. 1.4e+0;
1; Mismatches
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RESULT 26
FAR4_CALVO
ID FAR4 C
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FAR3_CALVO
ID FAR3_C
SEQUENCE.

SEQUENCE.

SEQUENCE.

TISSUE=Thoracic ganglion;

X MEDLINE=92196111; PubMed=1549595;

X MEDLINE=921961111; PubMed=1549595;

X MEDLINE=92196111; PubMed=1549595;

X MEDLINE=92196111; PubM
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P41859;
01-NOV-1995 (Rel.
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01-NOV-1995 (Rel.
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01-NOV-1995 (Rel.
01-NOV-1995 (Rel.
01-NOV-1995 (Rel.
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Duve H., Johnsen A.H., Sewell J.C., Scott A.G., Orchard I., Rehfeld J.F., Thorpe A.;
Rehfeld J.F., Thorpe A.;
"Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH2' neuropeptides (designated calliFMRFamides) from the blowfly Calliphora vomitoria.";
Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
-!- FUNCTION: Able to induce fluid secretion from the isolated salivary gland of Calliphora.
-!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide) family.
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SIGNORICE ganglion;
TISSUE=Thoracic ganglion;
TISSUE=92196111; PubMed=1549595;
TISSUE=92196111; PubMed=1549595;
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Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
Calliphoridae; Calliphora.
NCBI_TaxID=27454;
                                                                                                                                                                                                                                                                                                                      Calliphora vomitoria (Blue blowfly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
Calliphoridae; Calliphora.
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                                                                                                                                                                                                                                                                                              NCBI_TaxID=27454;
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9 AA; 1114 MW;
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32, Last sequences 32, Last annotations
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32, Last sequence up
32, Last annotation
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2F0B0699CAB6C5A7 CRC64;
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Pred. No.
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RESULT 28
FAR6_CALVO
ID FAR6_AC P4186
AC P4186
DT 01-NC
DT 01-NC
DT 01-NC
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OS Calli
OC Neopt
OC NCBI
RN [1]
RN [1]
RP SEQUI
RC MEDL:
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RA Reb£6
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TISSUE=Thoracic ganglion;
MEDLINE=92196111; PubMed=1549595;
MEDLINE=92196111; PubMed=1549595;
MEDLINE=92196111; PubMed=1549595;
MEDLINE=92196111; PubMed=1549595;
A Rehfeld J.F., Thorpe A.;
T Isolation, structure, and activity of neuropeptides (designated calliFMRFam Calliphora vomitoria.";
T Calliphora vomitoria.";
Proc. Natl. Acad. Sci. U.S.A. 89:232(
Proc. Natl. Acad. Sci. U.S.A. 89:232(
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01-NOV-1995 (Rel. 32, C
01-NOV-1995 (Rel. 32, I
01-NOV-1995 (Rel. 32, I
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MOD_RES
SEQUENCE 9 A
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FAR6_C
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01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
01-NOV-1995 (Rel. 32, Last annotation update)
CallifMRFamide 6.
Calliphora vomitoria (Blue blowfly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
Calliphoridae; Calliphora.
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NCBI_TaxID=27454;
                 TISSUE=Thoracic ganglion;
MEDLINE=92196111; PubMed=1549595;
Duve H., Johnsen A.H., Sewell J.C.,
Rehfeld J.F., Thorpe A.;
"Isolation, structure, and activity
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MOD_RES 9 9
SEQUENCE 9 AA; 1068 MW;
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   and activity of -Phe-Met-Arg-Phe-NH2
ted calliFMRFamides) from the blowfly
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39D10699CAB6D867
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31730699CAB6D457
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1; Mismatches
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Pred. No. 1.4e+05;
l; Mismatches (
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                                                                Scott A.G.,
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Proc. Natl. Acad. Sci. U.S
-!- SIMILARITY: Belongs to
family.
PIR; F41978; F41978.
                                                                                                                                                                                                                                                                                            SARBU
FRF1_S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOD RES
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=92196111; PubMed=1549595;
MEDLINE=92196111; PubMed=1549595;
Duve H., Johnsen A.H., Sewell J.C., Scott A.G., Orchard I.,
Rehfeld J.F., Thorpe A.;
"Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH2
neuropeptides (designated calliFMRFamides) from the blowfly
Calliphora vomitoria.";
Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Calliphora vomitoria (Blue blowfly). Eukaryota; Metazoa; Arthropoda; Hexal Neoptera; Endopterygota; Diptera; Br. Calliphoridae; Calliphora. NCBI_TaxID=27454;
                                                                                                                                                                           28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Neb-FMRFamide 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PIR; G41978; G41978.
Neuropeptide; Amidation.
MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last seq
01-NOV-1995 (Rel. 32, Last ann
CallifMRFamide 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Neuropeptide; Amidation.
MOD_RES 9 9
SEQUENCE 9 AA; 1058 MW;
                                                         Neoptera; Endopterygota; Diptera;
Sarcophagidae; Sarcophaga.
NCBI_TaxID=7385;
                                                                                                           Sarcophaga bullata (Grey flesh fly) (Neobellieria bullata).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Cestroidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     P41862;
                                                                                                                                                                                                                                                                  P83350;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SIMILARITY: Belongs to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CALVO
                                                                                                                                                                                                                                                                                            SARBU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9 9
9 AA; 1081 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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                                                                                                                                                                                                                                                                                        STANDARD;
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66.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the FARP (FMRFamide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AMIDATION.
E1D10699CAB6D86A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AMIDATION.
96D10699CAB6D865
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 13;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 13; DB
Pred. No. 1.4e
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           89:2326-2330(1992).
- FARP (FMRFamide related peptide)
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e FARP (FMRFamide related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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a; Brachycera; Muscomorpha; Oe
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SEQUENCE, A

AMIDATION,

AND

FUNCTION

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     Query Match
Best Local S
Matches
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Best Local Similarity
Matches 2; Conserv
                                                                                                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for commodifies requires alicense agreement (See http://www.isb-sib.ch/andrough.ch/andr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.

STRAIN=1033-5P14 / KAY2026;

STRAIN=93211295; PubMed=8459773;

Bachellier S., Perrin D., Hofnung M., Gilson E.;

"Bacterial interspersed mosaic elements (BIMEs) agenome of Klebsiella.";
                                                                                                                                                                                                                                              entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                    MOI. Microbiol. 7:537-544 (1993).

-!- FUNCTION: MALE IS INVOLVED IN THE HIGH-AFFINITY MALTOSE MEMBRANE TRANSPORT SYSTEM. INITIAL RECEPTOR FOR THE ACTIVE TRANSPORT OF AND CHEMOTAXIS TOWARD MALTOOLIGOSACCHARIDES.

-!- SUBCELLULAR LOCATION: Periplasmic.
-!- SIMILARITY: Belongs to the bacterial extracellular solute-binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KLEPN
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                                                                                                                                                                          InterPro;
                                                                                                                                                                                                      EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Klebsiella pneumoniae.
Bacteria; Proteobacteria; Gammaproteobacteria;
Enterobacteriaceae; Klebsiella.
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Q05564;
                                                                                                                                                         PROSITE;
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Nachman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-OCT-1994 (Rel. 30, Create
01-OCT-1994 (Rel. 30, Last s
30-MAY-2000 (Rel. 39, Last a
Maltose-binding periplasmic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Neuropeptide;
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                                                                                                                                                                                                                                                                                                                                                                                                                      protein family 1
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Pro; IPR006061; SBP_dom1.
TE; PS01037; SBP_BACTERIAL_1; PARTIAL
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     Similarity
2; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KDF 9
                                                                                           10
                                                                                                                                  Sugar transport;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30, Created;
30, Last sequence update;
39, Last annotation update;
39, Last annotation (Maltodextrin-binding protein)
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1155 MW;
                                                                                           1159 MW;
                         26.5%;
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Score 13;
Pred. No. 9
1; Mismatch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AMIDATION.
2D810699CAB6C5A7 CRC64;
                                                                                                                                    Periplasmic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1;
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Pred. No. 1.4e+05;
1; Mismatches 0
                                                                                           8FD8DC4415A6DDDA
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       Mismatches
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                            9e+03;
                                                  DB 1;
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                                                                                           CRC64;
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       Indels
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RESULT 32
TKN1_SCYCA
ID TKN1_SCY
AC P08608;
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  p28500;
T 01-DEC-1992 (Rel. 24, Created)
T 01-DEC-1992 (Rel. 24, Last sequence update)
T 01-DEC-1992 (Rel. 24, Last sequence update)
T 10-OCT-2003 (Rel. 42, Last annotation update)
Neurokinin A (Substance K) (Neuromedin L).
S Oncorhynchus mykiss (Rainbow trout) (Salmo gairdner OS Gadus morhua (Atlantic cod).
Gadus morhua (Atlantic cod).
C Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; OC Actinopterygii; Neopterygii; Teleostei; Euteleostei
OC Actinopterygii; Salmoniformes; Salmonidae; Oncox NCBI_TaxID=8022, 8049;
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SIGNORMAN
SEQUENCE.
TISSUE=Intestine;
TISSUE=Intestine;
TISSUE=Intestine;
TISSUE=Intestine;
MEDLINE=86192829; PubMed=2422056;
A Conlon J.M., Deacon C.F., O'Toole L.
A Conlon J.M., Deacon C.F., O'Toole L.
T"Scyliorhinin I and II: two novel ta
                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 2
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01-AUG-1988
10-OCT-2003
SEQUENCE.
SPECIES=O.mykiss,
TISSUE=Brain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Waugh D., Wang Y., Hazon N., Balment R.J., Conlon J.M.;
"Primary structures and biological activities of substance-P-related peptides from the brain of the dogfish, Scyliorhinus canicula.";
Eur. J. Biochem. 214:469-474(1993).
-!- FUNCTION: Tachykinins are active peptides which excite neurons, evoke behavioral responses, are potent vasodilators and secretagogues, and contract (directly or indirectly) many smooth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scyliorhinus canicula (Spotted dogfish) (Eukaryota; Metazoa; Chordata; Craniata; VElasmobranchii; Galeomorphii; Galeoidea; Scyliorhinidae; Scyliorhinus.
                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR002040; Tachy_Nev
PROSITE; PS00267; TACHYKININ;
                                                                                                                                                                                                   TKNB_ONCMY
                                                                                                                                                                                                                                                                                                                                                                                         Tachykinin; Neuropeptide; Amidation MOD_RES 10 10 AMIDAT
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-!- SIMILARITY: Belongs to
PIR; A24867; A24867.
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MEDLINE=93292508; PubMed=7685693;
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08, Last sequence update)
42, Last annotation update)
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              G. morhua;
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1; Mismatches
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D0602D6B59C33AA9 CRC64;
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tachykinins from dogfish gut.";
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                                                                                                                                                                                                                                                                                                                                    DB 1;
9e+03;
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Vertebrata; Chondrichthyes;
; Carcharhiniformes;
                                                                             Vertebrata;
Euteleostei,
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RESULT 35
TKS2_AEDAE
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AC P42635;
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TKS1_AEDAE
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Matches 2
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01-NOV-1995
10-OCT-2003
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-!- SIMILARITY: Belongs to the tachyki
PIR; S23186; S23186.
PIR; S23307; S23307.
InterPro; IPR002040; Tachy_Neurokinin.
Pfam; PF02202; Tachykinin; 1.
PROSITE; PS000267; TACHYKININ; 1.
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"Substance-P-related and neurokinin-A-related peptides from the brain of the cod and trout.";
                                                                                                                                                                                                                                                                                                                                    PROSITE; PS00267; TACHYKININ; 1.
Tachykinin; Neuropeptide; Amidation.
MOD_RES 10 10 AMIDATI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=Rockefeller; TISSUE=Salivary gland; MEDLINE=94105119; PubMed=8278354; Champagne D.E., Ribeiro J.M.C.; "Sialokinin I and II: vasodilatory tachykinins from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Aedes aegypti (Yellowfever mosquito),
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Aed
NCBI_TaxID=7159;
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MOD_RES 10 10 AMIDATION (BY SINSEQUENCE 10 AA; 1145 MW; 136B4062C9D5B440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mosquito Aedes aegypti.";
Proc. Natl. Acad. Sci. U.S.A.
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                                                                                                                                                                                                                                                                                                                                                                                                      -!- SUBCELLULAR LOCATION: Secreted.
-!- SIMILARITY: Belongs to the tachyki
PIR; A49581; A49581.
InterPro; IPR002040; Tachy_Neurokinin.
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FUNCTION: Tachykinins are active peptides which excite revoke behavioral responses, are potent vasodilators and secretagogues, and contract (directly or indirectly) man
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FUNCTION: Vasodilatory peptide.
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66.7%;
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Pred. No. 9e+0
1; Mismatches
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RESULT 36

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                                                                                                                                                                                                                                                                                                   Adamsen A.K., Jacobsen S., Ahring B.K., Submitted (OCT-1996) to Swiss-Prot.
-!- CATALYTIC ACTIVITY: Endohydrolysis linkages in xylans.
-!- PATHWAY: Xylan degradation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Endo-1,4-beta-xylanase B (EC 3.2.1.8) (Xylanase
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Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Aed
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01-NOV-1995 (Rel. 32,
10-OCT-2003 (Rel. 42,
Sialokinin II.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (1,4-beta-D-xylan xylanohydrolase B) (IDictyoglomus sp. (strain B4A).
Bacteria; Dictyoglomi; Dictyoglomales;
NCBI_TaxID=69007;
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MOD_RES 10 10 AMIDATION.

SEQUENCE 10 AA; 1146 MW; 3DC77C6B59C33AA8
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InterPro; IPR002040; Tachy Neurokinin PROSITE; PS00267; TACHYKININ; 1.
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"Sialokinin I and II: vasodilatory tachykinins mosquito Aedes aegypti.";
Proc. Natl. Acad. Sci. U.S.A. 91:138-142(1994).
                                                                                                                                                                                                              InterPro; IPR001000; Glyco_hydro_10.
PROSITE; PS00591; GLYCOSYL_HYDROL_F10; PAF
Xylan_degradation; Hydrolase; Glycosidase.
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-!- SUBCELLULAR LOCATION: Secreted.
-!- SIMILARITY: Belongs to the tachykinin
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                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE.
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1; Mismatches
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RESULT

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RESULT 38
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-!- SUBCELLULAR LOCATION: Cytoplasmic.
-!- INDUCTION: In response to low temperature.
mitochondrial inner membrane.
-!- SIMILARITY: Belongs to the con
HSC-2DPAGE; P49820; DOG.
InterPro; IPR002023; Cmplx1 24kDa.
PROSITE; P501099; COMPLEX1 24K; PJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=98163340; PubMed=9504812;
Dunn M.J., Corbett J.M., Wheeler C.H.;
"HSC-2DPAGE and the two-dimensional gel
dog heart proteins.";
Electrophoresis 18:2795-2802(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUHM_CANFA
P49820;
01-OCT-1996
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Graumann P.L., Schmid R.,
Submitted (OCT-1997) to S
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15-JUL-1998 (Rel. 36, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Cold shock protein CSI5 (11 kDa cold shock protein) (Fragment).
Bacteria, Firmicutes; Bacillales; Bacillaceae; Bacillus.
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Mammalia; Eutheria; Carnivora;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FISSUE=Heart;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NADH-ubiquinone oxidoredu (EC 1.6.99.3) (Fragment).
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15-JUL-1998
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.5-JUL-1998 (Rel. 36, Last sequence update)
.0-OCT-2003 (Rel. 42, Last annotation update)
VADH-ubiquinone oxidoreductase 24 kDa subunit
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                                                                                                                                                                    CHAIN. THE IMMEDIATE ELECTRONS FROM NADH TO THE RESPIRATORY CHAIN. THE IMMEDIATE ELECTRON ACCEPTOR FOR THE ENZYME IS BELITO BE UBIQUINONE. COMPONENT OF THE FLAVOPROTEIN-SULFUR (FP) FRAGMENT OF THE ENZYME.

CATALYTIC ACTIVITY: NADH + ubiquinone = NAD(+) + reduced accept COFACTOR: Binds 1 2Fe-2S cluster (Potential).

SUBCELLULAR LOCATION: Matrix and cytoplasmic side of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAUTION: Could not be found in the genome TER 11 11
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The Metazoa; Chordata; Craniata; Vertebrata;

The Metazoa; Chordata; Craniata; Canidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 IKDF
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Swiss-Prot.
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9.9e+03;
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P58805;
28-FEB-2003
28-FEB-2003
28-FEB-2003
                                                                                                                                                                                                                                                 MOD_RES
MOD_RES
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                Erspamer V., Anastasi A., Bertaccini G., Cei J.M.;
"Structure and pharmacological actions of physalaemin, the main active polypeptide of the skin of Physalaemus fuscumaculatus.";
Experientia 20:489-490(1964).

-!- FUNCTION: Tachykinins are active peptides which excite neuron evoke behavioral responses, are potent vasodilators and secretagogues, and contract (directly or indirectly) many so
                    Conorfamide-Sr1.
Conus spurius (Alphabet cone).
Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Physalaemus fuscumaculatus (Neotropical frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oxidoreductase; NAD; Ubiquinone; Mitochondrion; Metal-binding; Iron-sulfur; Iron; 2Fe-2S.

NON_TER 11 11
SEQUENCE 11 AA; 1099 MW; 267F5369C9C72DD8 CRC64;
Apogastropoda;
Neogastropoda;
                                                                                                                                                                                                                                                                                                                                         -!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Skin.
-!- SIMILARITY: Belongs to the tachykinin
PIR; S07201; S07201.
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10-OCT-2003
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01-AUG-1988
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                                                                                                                                                                                                                                                                                                         PROSITE; PS00267; TACHYKININ; 1
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                                                                                                                                                                                                                                                                                                                                InterPro;
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                                                                                                                                                                                                                                                                                               defense peptide;
                                                                                                                                                                                                                                                  11 AA;
                                                     (Rel. 41, Created)
(Rel. 41, Last sequence up
(Rel. 41, Last annotation
                                                                                                                                                                                                                                                                                  carboxylic acid.
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(Rel.
(Rel.
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Caenogastropoda; Sorbeoconcha; Conoidea; Conidae; Conus.
                                                                                                                                                                                                                                                                                                                     Tachykinin,
                                                                                                    STANDARD;
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28, Last
42, Last
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66.7%;
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0; Mismatches
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Pred. No.
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           Hypsogastropoda;
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Leptodactylidae;
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RESULT 41

NP4_LYMST

ID NP4_LYMST

P80-181;

DT 01-JUL-1993 (Rel. 2

Eukaryota; Metazoa; Rel 11

RP SEQUENCE.

RT TISSUE=Ganglion; Rehfe RT "LymnaDFamides, a n Lymnaea stagnalis.

RT Lymnaea stagnalis.

RT Lymnaea stagnalis.

RT Eur. J. Biochem. 21

CC -1- SIMILARITY: REL DR PIR; S32474; S32474

KW Neuropeptide; Amida FT MOD RES 13

SQ SEQUENCE 13 AA;
SOURCE COCCOCCE TO A REAL SOURCE COCCOCCE TO
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MOD RES 12 12
SEQUENCE 12 AA; 1456 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE=Ganglion;
MEDLINE=93238777; PubMed=8477756;
Johnsen A.H., Rehfeld J.F.;
"LymnaDFamides, a new family of neuropeptides from the pond Lymnaea stagnalis. Clue to cholecystokinin immunoreactivity
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Maillo M., Aguilar M.B., Lopez-Vera E., Craig
Olivera B.M., Heimer de la Cotera E.P.;
"Conorfamide, a Conus venom peptide belonging
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=192919;
[1]
SEQUENCE, SYNTHESIS, AND MASS SPECTROMETRY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lymnaea stagnalis (Great pond snail).
Eukaryota; Metazoa; Mollusca; Gastropoda;
Lymnaeoidea; Lymnaeidae; Lymnaea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Toxicon 40:401-407(2002).

-!- FUNCTION: Causes hyperactivity in mice.
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Expressed by the venom duct.
-!- MASS SPECTROMETRY: MW=1454.8; METHOD=Electrospray.
-!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Neuropeptide; Amidation.
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- SIMILARITY: RELATED TO THE CHOLECYSTOKININ
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66.7%;
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Pred. No. 1.2e
1; Mismatches
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Pred. No. 1.1e+0;
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2510671E49D772D3
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9CA07BBB56D5B455 CRC64;
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ID SA2A_ONCMY
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16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
16-OCT-2001 (Rel. 40, Last annotation update)
Phloroglucinol reductase (EC 1.3.1.57) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Neuropeptide; Amidation.
MOD RES 13 13
SEQUENCE 13 AA; 1476 N
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MEDLINE=93238777; PubMed=8477756;
Johnsen A.H., Rehfeld J.F.;
Johnsen A.H., Rehfeld J.F.;
"LymnaDFamides, a new family of neuropeptides from the pond "Lymnaea stagnalis. Clue to cholecystokinin immunoreactivity Lymnaea."
                                                                                          Aromatic hydrocarbons catabolism; Oxidoreductase; NON_TER 13 13 13 SEQUENCE 13 AA; 1527 MW; 427E2E0833F1CB13 CRC6
                                                                                                                                                                                                             Haddock J.D., Ferry J.G.;

"Purification and properties of phloroglucinol reductase Eubacterium oxidoreducens G-41.";

J. Biol. Chem. 264:4423-4427(1989).

-!- FUNCTION: FUNCTIONS IN THE PATHWAY OF ANAEROBIC DEGRATERIHYDROXYBENZENES BY CATALYZING REDUCTION OF THE ARC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eur. J. Biochem. 213:879
-1- SIMILARITY: RELATED
PIR; S32475; S32475.
                                                                                                                                                                                                                                                                                                                                                         Eubactérium oxidoreducens.
Bacteria; Firmicutes; Clostridia; Clostridiales; Eubacteriaceae;
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Eukaryota; Metazoa; Mollusca; Gas
Lymnaeoidea; Lymnaeidae; Lymnaea.
                                                                                                                              PIR; A32453; A32453.
                                                                                                                                                               PRIOR TO RING FISSION.
-!- CATALYTIC ACTIVITY: Dihydrophloroglucinol phloroglucinol + NADPH.
-!- SUBUNIT: Homodimer.
                                                                                                                                                                                                                                                                                                SEQUENCE, I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      invertebrates?";
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                                               Conservative
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RELATED TO THE CHOLECYSTOKININ
                                                                                                                                        TEMPERATURE AND PH
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Mollusca; Gastropoda; Pulmonata;
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66.7%;
                                              Score 13; DB Pred. No. 1.2e 1; Mismatches
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Pred. No.
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9CA07BBB56D5A5A5
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STANDARD;

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RESULT 45
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AC P82239
DT 16-OCT
DT 16-OCT
DT 10-OCT
DT Salmoc
OS Oncorh
OC Eukary
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RP SEQUEN
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NON TER
SEQUENCE 1
                                                                                                                                                                                                                                                                                                                                                                                                                                        Henry M.A., Secombes C.J.;
"Purification and partial characterization of antibacterial peptides from rainbow trout, Oncorhynchus mykiss.";
Submitted (DEC-1999) to Swiss-Prot.
-!- FUNCTION: Antibacterial activity against Gram-negative bacteria.
-!- SUBCELIULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Plasma serum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Outcornynchus mykiss (Rainbow trout) (Salmo gairdneri).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
NCBI_TaxID=8022;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Henry M.A., Secombes C.J.;
"Purification and partial characterization of antibacterial peptides from rainbow trout, Oncorhynchus mykiss.";
Submitted (DEC-1999) to Swiss-Prot.
-!- FUNCTION: Antibacterial activity against Gram-negative bacteria.
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Plasma serum.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
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16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Salmocidin 2A (Fragment).
                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                     Antibiotic.
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16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Salmocidin 2B (Fragment).
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Q8ha05 bacteriopha
Q13865 homo sapien
Q9tt78 canis famil
Q9ps68 gallus gall
Q95nb1 eulemur ful
Q85782 mycobacteri
Q95j20 eulemur ful
Q95nb6 eulemur ful
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OC Acan
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AMPA receptor subunit 2 a
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EMBL, AF350050; AAL57192.1; -.

GO; GO:0004872; F:receptor activity; IEA.
                                                                                                                                                                                                                                                                                                                                                                             Oreochromis mossambicus (Mozambique tilapia) (Tilapia mossambica). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidei; Cichlidae; Oreochromis.
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Q9H3W2;
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EMBL; X71371; CAC16150.1; -. SEQUENCE 12 AA; 1252 MW; 6E17AFDE83ADD87B CRC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=94010310; PubMed=8406013; Onno M., Nakamura T., Hillova J., Hill M.; Onno M., Nakamura T., Hillova J., Hill M.; "Identification of novel sequences in the repertoire of lTRE17 genes from immortalized nonmalignant and malignant keratinocytes."; Gene 131:209-215(1993).
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01-JUN-2003
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Amphibia; Batrachia;
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Eukaryota; Metazoa; Chordata;
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Catarrhini; Hominidae;
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from enterchaemorrhagic Escherichia
Thesis (2000), Department of Veterin
EMBL; AJ413275; CAC95073.1; -.
Hypothetical protein.
SEQUENCE 13 AA; 1378 MW; 3F479FA
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EMBL; AF350054; AAL57196.1; -.

GO; GO:0004872; F:receptor activity; IEA.
                                                                                                                                                                                                                                                                                                                                             El-Sayed A.A.A., Wieler L.H., Baljer G., Stamm I., Kroeger M., "Identification of Shigatoxin producing prophages in E.coli frobovine reveal new insights into toxic phage evolution."; Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Chondrichthyes;
Elasmobranchii; Squalea; Squaloidei; Squalidae; Squalus.
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PIR; S43170;
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MEDLINE=97101110; PubMed=8945637;
Chernajovsky Y., Brown A., Jones T.A.;
"Promoter first exon/intron characterization of the human light chain (beta) kinesin gene. DNA Cell Biol. 15:965-974(1996).
EMBL; X69658; CAA49349.1; -.
PIR; S43170; S43170; S43170; S43170; S43170; S43170;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae;
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MEDLINE=92011685; PubMed=1918027;

MEDLINE=92011685; PubMed=1918027;

Stifani S., Barber D.L., Aebersold R.,

Schneider W.J.;

"The laying hen expresses two different receptor-related proteins.";

J. Biol. Chem. 266:19079-19087(1991).
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Q51812;
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Gene 104:85-90(1991).
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Eukaryota; Metazoa;
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GO; GO:0004386; F:helicase activity; IEA
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mes; Phasianidae; Phasianinae;
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RESULT 12
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AC Q95J2
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DT Q1-DE
DT Q1-DE
DE Malic
CS Euler
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RN (1)
RP SEQUE
RA Wyner
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ID 08788

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O87882;
O1-NOV-1998 (TrEMBLrel. 08,
O1-NOV-1998 (TrEMBLrel. 08,
O1-NOV-1998 (TrEMBLrel. 08,
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Wyner Y.M., Johnson S.E.,
"A genetic assessment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eulemur fulvus (brown lemur).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
MCBI_TaxID=13515;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN=ATCC19250;
MEDLINE=98406038; PubMed=9733688;
Pagan-Ramos E., Song J., McFalone M.,
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 SEQUENCE FROM Wyner Y.M., Jo
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Bacteria; Actinobacteridae; Actinomycetales;
Corynebacterineae; Mycobacteriaceae; Mycobacterium.
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                                                                                Eukaryota; Metazoa;
Mammalia; Eutheria;
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01-DEC-2001 (TrEMBLrel. 19,
01-DEC-2001 (TrEMBLrel. 19,
01-DEC-2001 (TrEMBLrel. 19,
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Bulemur fulvus albocoll
                                                                                                                                                                                                                                                  Q95J20
                                                           NCBI_TaxID=122224;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'Oxidative stress response and characterization 
EurA-katG loci in Mycobacterium marinum.";
J. Bacteriol. 180:4856-4864(1998).
EMBL; U43810; AAC61663.1; -.
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ed (APR-2000) to the EMBL/C
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3; Conserv
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a red-fronted/white-collared
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                                                                                  Craniata; Vertebrata;
Strepsirhini; Lemurid
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RESULT 14
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Q95NB6;
01-DEC-2001
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Q95J19;
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SEQUENCE FROM N.A.

Wyner Y.M., Johnson S.E., DeSalle R.;

"A genetic assessment of a red-fronted/white-collared lemur
zone at Andringitra, Madagascar.";

Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.

EMBL; AF258163; AAK53143.1; -.

EMBL; AF258170; AAK53150.1; -.

EMBL; AF258171; AAK53151.1; -.

EMBL; AF258173; AAK53153.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "A genetic assessment of a red-fizone at Andringitra, Madagascar. Submitted (APR-2000) to the EMBL; AF258139; AAK53119.1; -. EMBL; AF258145; AAK53125.1; -. EMBL; AF258147; AAK53127.1; -.
                                                                                                                           Malic enzyme (Fragment).
Eulemur fulvus (brown lemur).
Eukaryota; Metazoa; Chordata;
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                                                                                                     Mammalia; Eutheria;
NCBI_TaxID=13515;
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Submitted (APR-2000) to the EMBI
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Mammalia; Eutheria;
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Eulemur fulvus rufus
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Wyner Y.M., Johnson
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Primates;
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Strepsirhini; Lemuridae; Eulemur.
                                                                                                                   Craniata; Vertebrata; Eu
Strepsirhini; Lemuridae;
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Best Local S
Matches 3
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01-OCT-2000
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J. Bact
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01-NOV-1996
01-OCT-2003
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NON TER
SEQUENCE
SEQUENCE FROM N.A.
STRAIN=GORILLA-U1;
Kitano T., Kobayakawa H., Saitou N.;
Kitano T., Kobayakawa H., Saitou N.;
"Silver Project.";
Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
EMBL; AB041364; BAA94453.1; -.
GO; GO:0008168; F:methyltransferase activity; IEA.
                                                                                                                                                                Q9N2B9;
Q9N2B9;
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Q46712;
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                                                                                                                                                                                                                                                                                                                              EMBL;
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EMBL; AF258178; AAK53158.1;
EMBL; AF258179; AAK53159.1;
EMBL; AF258181; AAK53161.1;
EMBL; AF258182; AAK53162.1;
                                                                                     Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                        "Cloning, mapping, and
                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
MEDLINE=86250614; PubMed=3522549;
Fee B.E., Dempsey W.B.;
                                                                                                                                                                                                                                                                                                                                                                                                                   Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales; Enterobacteriaces; Escherichia.
                                                                                                                                                                                                                                                                                                                                                                                                                                               Hypothetical protein. Escherichia coli.
                                                                     NCBI_TaxID=9593;
[1]
                                                                                                        Gorilla gorilla (gorilla)
                                                                                                                                                                                                                                                                                                                                                                                                                                       Plasmid R100.
                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                           Hypothetical protein; Plasmid
                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=562;
                                                                                                                          ndolethylamine
                                                                                                                                                                                                                                                                                                                   Bacteriol. 167:336-345(1986).
BL; M13054; AAA88503.1; -.
; GO:0046821; C:extrachromosomal DNA; IEA.
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                                                                                                                         (TrEMBLrel. 15, Created)
(TrEMBLrel. 15, Last sequence up)
(TrEMBLrel. 24, Last annotation)
mine N-methyltransferase (Fragmer
                                                                                                                                                                                                                                                            36.0%; Score 18; DB ilarity 100.0%; Pred. No. 9. Conservative 0; Mismatches
                                                                                                                                                                          PRELIMINARY;
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                                                                                     Chordata;
Primates;
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25,
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Last annotation update)
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Pred. No. 8.3e
1; Mismatches
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                                                                                    Craniata; Vertebrata;
Catarrhini; Hominidae
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                                                                                                                        notation update) (Fragment).
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8.3e+03
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                                                                                      Gorilla
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RESULT 18
Q9N2B8
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Best Local S
Matches
Query Match
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Q9N2B8;

Q9N2B8;

01-OCT-2000 (TrEMBLrel. 15, Created)

01-OCT-2000 (TrEMBLrel. 24, Last annotation updat on the control of the control 
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Methyltransferase;
NON_TER 12
SEQUENCE 12 AA;
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Q95NB3;
01-DEC-2001
01-DEC-2001
01-DEC-2001
                                               NON TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NON_TER
NON_TER
SEQUENCE
                                                                                                                                  "Silver Project.";
Submitted (APR-2000) to the EMBL/GenBank/DDBJ EMBL; AB041365; BAA94454.1; -.
GO; GO:0008168; F:methyltransferase activity; GO; GO:0016740; F:transferase activity; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                           Pongo pygmaeus (Orangutan),
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "A genetic assessment of a red-fronted/white-collared lezone at Andringitra, Madagascar.";
Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases
EMBL; AF258164; AAK53144.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Malic enzyme (Fragment).
Eulemur fulvus (brown lemur).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
STRAIN=oran-Po13;
Kitano T., Kobayakawa H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wyner Y.M.,
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                                                                                                            Methyltransferase;
                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=13515;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (TrEMBLrel.
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Pred. No. 9.1
0; Mismatches
Score
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                                                                                                                                                                                                                                                                                                                                                                                                                                Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Pongo.
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18;
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DB
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                                                        CRC64;
                                                                                                                                                                   IEA
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RESULT 19
Q9N2CO
ID Q9N2CO
AC Q9N2C
AC Q9N2C
DT 01-OC
DT 01-OC
DT 01-TU
DE Indol
GN INMT.
OC Pan t
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RN [1]
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RC STRAJ
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RA GO; (
DR GO; (
DR GO; (
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SQ SEQUE
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Q95NB7
ID Q95NB
AC Q95NB
DT Q1-DE
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DT 01-DE
DT 01-DE
COC MANIA
OC NCBI
RN [1]
RP SEQUE
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Best Local S
Matches 3
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Best Local S
Matches 3
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Matches
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Q1-DEC-2001 (TrEMBLrel. 19, C
Q1-DEC-2001 (TrEMBLrel. 19, L
Q1-DEC-2001 (TrEMBLrel. 19, L
Q1-DEC-2001 (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NON TER
SEQUENCE
                                                                                                                                                                                                                             zone at Andringitra, Madagascar.";
Submitted (APR-2000) to the EMBL/G
EMBL; AF258146; AAK53126.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Submitted (APR-2000) to the EMBL/GenBank/DDBJ EMBL; AB041363; BAA94452.1; -. GO: GO:0008168; F:methyltransferase activity; GO; GO:0016740; F:transferase activity; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN-chimp-220;
Kitano T., Kobayakawa H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pan troglodytes (Chimpanzee).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Indolethylamine N-methyltransferase (Fragment).
                                                                                                                                                                        SEQUENCE
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                                                                                                                                                                                                                                                                                         Wyner Y.M., Johnson S.E., "A genetic assessment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q9N2C0
                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Strepsirhini; Lemuridae; Eulemur.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9598;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Eulemur fulvus albocollaris.
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                                                                                                                                                                                                                                                                                                                                                                               CBI_TaxID=122224;
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                                         FMIQG 6
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nilarity 60.0%;
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a red-fronted/white-collared lemur
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                                                                                 Score 18; DB Pred. No. 9.9e
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annotation update)
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o. 9.1e+03;
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RESULT 23
Q90ZV5
ID Q90ZV5
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Q98YJ7
Q98YG
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DT 01-JU
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DT 01-OC
DE Trunc
GN POL.
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GN POL.
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Matches 3
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Q15902;
01-NOV-1996
01-NOV-1996
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Q98YJ7;
01-JUN-2001
01-JUN-2001
01-OCT-2002
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NON TER
SEQUENCE
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; I
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Recovery of HIV-1 pol gene sequences by direct sequencing amplification products derived from plasma samples."; Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases. EMBL, AF347470; AAK32547.1; -.
                                                                                                                                                                                                                                                                                                                           "Isolation of chromosome-specific genes arrayed cDNAs and cosmid libraries."; Hum. Mol. Genet. 0:0-0(1995).
EMBL; L32081; AAA73892.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                     Caskey
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Coolbaugh M.I., Chinault C.A.,
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(Clone XP7E7A)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rissum=Placenta;
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jiruses; Retroid viruses; Retroviridae; Lentivirus
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ilarity 100.0%;
Conservative
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   PRELIMINARY;
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TrEMBLrel. 01,
TrEMBLrel. 19,
(Fragment).
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75.0%;
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17,
22,
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                                                                                                                                                                                         Score 17; DB; Pred. No. 1e+
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     PRT;
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Baldini A.,
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le+06;
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, Lindsay H
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RESULT 24
Q96QA7
Q96QAA
AC Q96QA
DT 01-DE
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RN [1]
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RN SEQUE
RA SEQUE
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Q47420
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DT 01
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Matches 3
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Best Local Similarity
Matches 3; Conserv
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01-DEC-2001 (TrEMBLrel. 19, C)
01-DEC-2001 (TrEMBLrel. 19, L)
01-JUN-2003 (TrEMBLrel. 24, L
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Q96QA7
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Eukaryota; Metazoa; Cl
Mammalia; Eutheria; P:
NCBI_TaxID=9606;
                                                                     Q47420 PRE
Q47420;
Q1-NOV-1996 (TI
Q1-NOV-1996 (TI
Q1-JUN-2003 (TI
QRF11 protein.
Escherichia coli.
Bacteria; Proteobacteria; Gammaproteobacteria;
Enterobacteriaceae; Escherichia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Whitehead S.;
Submitted (SEP-2001) to the EMBL; AL451106; CAC88408.1;
NON TER 10 10
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Auk 118:248-255(2001).
EMBL; AF307898; AAK43537.1;
EO; GO:0016301; F:kinase act
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Q9H1Z6;
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01-MAR-2001
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Sharples G.J., Lloyd R.G.;
"Resolution of Holliday junctions in Escherichia of the ruvC gene product as a 19-Kilodalton prote J. Bacteriol. 173:7711-7715(1991).
EMBL; X59551; CAA42127.1; -.
PIR; S19015; S19015.
                                                                        Homo sapiens (Human)
Eukaryota; Metazoa;
Mammalia; Eutheria;
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Castilla J.A., Yoldi A., Ruiz A., Real L.!
"Homo sapiens estrogen receptor 1 (ESR1),
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O1-JUN-2002 (TrEMBLrel. 21, Last sequence update)
O1-JUN-2002 (TrEMBLrel. 21, Last annotation update)
SNF RAD 54-like protein (Fragment).
Glycine max (Soybean).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae; Glycine.
NCBI_TaxID=3847;
                                                                                                                                                                                                                                                                                          STRAIN=cv. Forrest;

Meksem K., Lightfoot D., Gibson P.;

Meksem K., Lightfoot D., Gibson P.;

"Soybean Sudden Death Syndrome resistant nematode resistant soybeans and methods o resistant plants.";

Submitted (FEB-2002) to the EMBL/GenBank/EMBL; AF489439; AAM14563.1; -.
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SEQUENCE
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MEDLINE=21258784; PubMed=11361330;
Meksem K., Ruben E., Hyten D., Triwitayakorn K., Lightfoot D.A.;
"Conversion of AFLP bands into high-throughput DNA markers.";
Mol. Genet. Genomics 265:207-214(2001).
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EMBL; M15634; AAA59615.1; -.
Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates; NCBI_TaxID=9606;
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                                     Hypothetical protein. Homo sapiens (Human).
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01-OCT-2003 (TrEMBLrel.
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01-OCT-2003 (TrEMBLrel.
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01-NOV-1998 (TrEMBLrel. 08,
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Mammalia; Eutheria;
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SEQUENCE FROM N.A.

MEDLINE=92163014; PubMed=1536925;

Fliegmann J., Schroder G., Schanz S., Britsch L., Schroder J.;

"Molecular analysis of chalcone and dihydropinosylvin synthase
Scots pine (Pinus sylvestris), and differential regulation of t
and related enzyme activities in stressed plants.";

Plant Mol. Biol. 18:489-503(1992).
                                                                                                                                                                                                                                                                                        Q02320 PRELIMINARY;
Q02320;
Q1-NOV-1996 (TrEMBLrel. 01,
01-NOV-1996 (TrEMBLrel. 01,
01-DEC-2001 (TrEMBLrel. 19,
01-DEC-2001 (TrEMBLrel. 19)
                                                                                                                           SEQUENCE FROM N.A.

MEDLINE=93015948; PubMed=1400374;

Schroder G., Schroder J.;

"A single change of histidine to glutamine preference of a stilbene synthase.";

J. Biol. Chem. 267:20558-20560(1992).
                                                                                                                                                                                                                  Chalcone synthase (Fragment).
Pinus sylvestris (Scots pine).
Eukaryota; Viridiplantae; Streptophyta; Eml
Spermatophyta; Coniferopsida; Coniferales;
NCBI_TaxID=3349;
[1]
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Eukaryota; Metazoa; Chordat
Mammalia; Metatheria; Dipro
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a; Diprotodontia; Macropodidae; N
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Schroeder J.;
Submitted (AUG-1992) to the E
EMBL; L00658; AAA50523.1; -.
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SEQUENCE 12 AA; 1303 MW;
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O1-NOV-1996 (TrEMBLrel. O1, Created)
O1-NOV-1996 (TrEMBLrel. O1, Last sequence update)
O1-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Resveratrol synthase (Fragment).
Arachis hypogaea (Peanut).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosid:
eurosids I; Fabales; Fabaceae; Papilionoideae; Aeschynomeneae;
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   O93824;
01-MAY-1999 (TrEMBLrel. 10, Created)
01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-MAY-1999 (TrEMBLrel. 10, Last annotation update)
UDP-galactose-4-epimerase (Fragment).
GAL10.
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Lanz T., Schroder G., Schroder J.;

"Differential regulation of genes
cultures of Arachis hypogaea L.";
Planta 181:169-175(1990).
                                                                                                                                                                                                                                                                                      "A single change of histidine to glutamine preference of a stilbene synthase."; J. Biol. Chem. 267:20558-20560(1992). EMBL; L00953; AAC41685.1; -. NON_TER 12 12
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J. Biol. Chem. 266:9971-9976(1991).
                                                                                      093824
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MEDLINE=93015948; PubMed=1400374;
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                                                                                                                                                                                                                                                                                                                                                         G., Schroeder J
                                                                                                                                                                                                                                                                      12 AA;
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                                                                                      PRELIMINARY;
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                                                                                                                                                                                                                                                                        1294 MW;
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57.1%;
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Pred. No.
                                                                                                                                                                                                                               Score 16;
Pred. No.
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                                                                                                                                                                                                                                                                      COB35A1BE0CEB866
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Query Match Best Local S Matches 3

NON TER NON TER SEQUENCE

EMBL;

RESULT 32
04666
AC 04666
DT 01-JU
DT 01-JU
DT 01-DE
DE Gluco
GN Macro
OC Eukar
OC Mamma
OX NCBI
RN [1]
RP SEQUE
RX MEDLI
RY WAINAL
RT WAINAL
RT WAINAL
FT NON 7
FT NON 7
FT NON 7
FT NON 7

01-JUN-1998 01-JUN-1998 01-DEC-2001

046664;

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RESULT 37
Q814P5
ID Q814P
AC Q814P
DT 01-OC
DT 01-OC
DT 01-OC
DE Beta-
OS Zea m
OC Eukan
OC Eukan
OC Sperm
OC PACCA
OX NCBI
RN [1]
RN [1]
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Q39380
Q3938
AC Q3938
AC Q3938
AC Q3938
DT 01-NC
DT 01-DE
DE IFA 1
OS Brass
OC Eukar
OC Eukar
OC WCBI
RN [1]
RN [1]
RP SEQUI
RC STRAI
RT NON 1
RT Submi
DR RMBL;
SQ SEQUI
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Best Local S
Matches 2
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Best Local S
Matches 2
                                                              01-OCT-2002 (TrEMBLrel. 22, Created)
01-OCT-2002 (TrEMBLrel. 22, Last sequence up
01-OCT-2002 (TrEMBLrel. 22, Last annotation
Beta-expansin-like protein (Fragment).
Zea mays (Maize).
Eukaryota; Viridiplantae; Streptophyta; Embr
Spermatophyta; Magnoliophyta; Liliopsida; Pc
PACCAD clade; Panicoideae; Andropogoneae; Ze
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Candida tropicalis (Yeast).
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; mitosporic Saccharomycetales; Candida.
NCBI_TaxID=5482;
[1]
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Q39380;
O1-NOV-1996 (TrEMBLrel. 01, Created)
O1-NOV-1996 (TrEMBLrel. 01, Last sequence update)
O1-DEC-2001 (TrEMBLrel. 19, Last annotation update)
IFA binding protein (Sp10) (Fragment).
Brassica oleracea (Cauliflower).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosid;
eurosids II; Brassicales; Brassicaceae; Brassica.
                                                                                                                                                                               Q8L4P5;
01-OCT-2002 (TrEMBLrel.
01-OCT-2002 (TrEMBLrel.
01-OCT-2002 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; X97678; CAA66268.1; -.
NON TER 1 1 1
SEQUENCE 13 AA; 1413 MW;
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NON_TER
NON_TER
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STRAIN=Dok; TISSUE=Curd surface;
Willis G.;
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     SEQUENCE
                                           NCBI_TaxID=4577;
                                                                                                                                                                                                                                                                                Q8L4P5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antiserum.
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   FROM N.A.
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                                                                                                                                                                                 Created)
Last sequence upor Last annotation of the contraction of the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 16; DB Pred. No. 2.3e 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                r region of GAL1 and GAL10 go
EMBL/GenBank/DDBJ databases.
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Pred. No. 2.3e+04;
2; Mismatches (
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that bind a po
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2.3e+04;
                                                                    Embryophyta; Tracheophyta;
a; Poales; Poaceae;
e; Zea.
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polyclonal anti-lamin
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RESULT
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Best Local S
Matches 3
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Q86578;
Q1-NOV-1996 (TrEMBLrel. 0:
01-NOV-1999 (TrEMBLrel. 1:
01-DEC-2001 (TrEMBLrel. 1:
Protein 4 (Fragment).
                                                            Teninges D., Bras F., Dezelee S., "Genome organization of the sigma overlap.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; AYO
NON TER
SEQUENCE
                                                                                                                                                                               Sigma virus.
Viruses; ssRNA negative-strand viruses; Mononegavirales;
Rhabdoviridae; unclassified Rhabdoviridae.
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                EMBL; S
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Morgante M., Rafalski
"SNP frequency, haple
                               Virology 193:1018-1023(1993).
EMBL; S57855; AAD40703.1; -.
                                                                                                SEQUENCE FROM N.A.
MEDLINE=93212481;
Teninges D., Bras
                                                                                                                                                                    NCBI_TaxID=11301;
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SEQUENCE
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AY094285; AAM21811...
AY094286; AAM21812...
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AA;
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AAM21819

AAM21820

AAM21821

AAM21822

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12,
19,
MW;
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Last annotation updat
                                                                                                                                                                                                                                                                                                             Created)
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397C3BDAD3E4CA08 CRC64;
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DB 12; 2.5e+04;

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Q8UT17;
01-MAR-2002
01-MAR-2002
01-OCT-2002
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01-NOV-1996
01-JUN-2003
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MEDLINE=94082462; PubMed=8259665;

MEDLINE=94082462; PubMed=8259665;

Saksena N.K., Herve V., Durand J.P., LeGuenno B., Diop O.M.,

Saksena N.K., Herve V., Durand J.P., Love J.L., Benz P.M.,

Digoutte J.P., Mathiot C., Muller M.C., Love J.L., Benz P.M.,

Erensoy S., Barre-Sinoussi F., Poiesz B.J.;

"Seroepidemiologic, molecular, and phylogenetic analyses of simian T-
cell leukemia viruses (STLV-I) from various naturally infected monkey
species from central and western Africa.";

Virology 198:297-310(193).
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NON_TER
SEQUENCE
       Novitsky V.A., Smith U.R., Gilbert P., McLane M.F., Chigwedere P., Williamson C., Ndung'u T., Klein I., Chang S.-Y., Peter T., Thior Foley B.T., Gaolekwe S., Rybak N., Gaseitsiwe S., Vannberg F., Marlink R., Lee T.-H., Essex M.;
"HIV-1 subtype C molecular phylogeny: consensus sequence for an AI vaccine design.";
Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AF443105; AAL34832.1; -.
SEQUENCE 14 AA; 1486 MW; 1F8F11F22AA03E20 CRC64;
                                                                                                                                                                                                                                                                                                                                          GAG.
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                                                                                                                                                                                                                                                                   Human immunodeficiency virus 1.
Viruses; Retroid viruses; Retroviridae; Lentivirus
NCBL TaxID=11676;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Simian T-lymphotropic virus
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                                                                                                                                                                                                       STRAIN=00BW2127.214;
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                                                                                                                                                                                                                               SEQUENCE FROM N.A.
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GO:0016563; F:transcriptional activator activity; IEA.
GO:0045941; P:positive regulation of transcription; IEA
erPro; IPR004120; Tax.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein
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nilarity 25.0%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                   (TrEMBLrel. (TrEMBLrel. (TrEMBLrel. )
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Pred. No. 2.5e
3; Mismatches
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1F8F11F22AA03E20
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annotation update)
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2.5e+04;
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Q9POK3
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SEQUENCE FROM N.A.

MEDLINE=20145478; PubMed=10679249;

Lin C.S., Lau A., Tu R., Lue T.F.;

"Identification of three alternative first exons and an intr
promoter of human PDE5A gene.";

Biochem. Biophys. Res. Commun. 268:596-602(2000).

EMBL; AF155195; AAF40302.1; -.

GO: GO: 0004116; F:cGMP-specific phosphodiesterase activity;
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01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update
CGMP-specific phosphodiesterase PDE5A2 (Fragment).
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01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
CLIP-associating protein CLASP2 (Fragment).
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"CLASPs are CLIP-115 and -170 assoc
regional regulation of microtubule
Cell 104:923-935(2001).
EMBL; AJ288058; CAC35157.1; -.
GO; GO:0005737; C:cytoplasm; NAS.
                                                                                                                                                                              SEQUENCE: SEQUEN
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                  Akhmanova A., Hocyc...

Akhmenova T., Vermeulen
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Galjart N.;
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Mammalia; Eutheria;
                                                                                                                            Galjar, N.; "CLASPS are CLIP-115
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Primates;
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Pred. No. 1e+0
1; Mismatches
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Catarrhini;
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1e+06;
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2.5e+04;
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RESULT 43
Q92009
ID Q9200
AC Q9200
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DT 01-J)
DE C-RE
OS Gall
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OC Gall
OC Gall
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RP SEQ
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RESULT 44
Q9HFN
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Best Local S
Matches 3
                           Biasio W.;
Thesis (2000), University of Vienna, Austria.
EMBL; AJ279021; CAC08812.1; -.
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SEQUENCE
                                                                                                                                                              Saccharomycetales;
NCBI_TaxID=5481;
                                                                                                                                                                                      Candida rugosa (Yeast) (Candida cylindracea).
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; mitosporic Saccharomycetales; Candida.
                                                                                                                                                                                                                                                                                                       01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
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EMBL; X56440; CAA39822.1; -.
EMBL; X56515; CAA39866.1; -.
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MEDLINE=91133738; PubMed=2284104;

Hannink M., Temin H.M.;

"Structure and autoregulation of the oncogene 5:1843-1850(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C-REL protein (Fragment).
Gallus gallus (Chicken).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
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                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                         Acyl carrier protein (Fragment).
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01-NOV-1996 (TrEMBLrel. 01,
01-JUN-2003 (TrEMBLrel. 24,
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9 AA; 805 MW;
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Pred. No. 1e+06;
1; Mismatches
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Last annotation updat
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 D2E4CC3976C40732 CRC64;
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Pred. No. le+06;
0; Mismatches
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RESULT 45
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Search completed: August 30, Job time : 12.6655 secs
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Best Local Similarity
Matches 2; Conserv
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O1-NOV-1998 (TrEMBLrel. 08, Created)
O1-NOV-1998 (TrEMBLrel. 08, Last sequence update)
O1-NOV-1998 (TrEMBLrel. 19, Last annotation update)
O1-DEC-2001 (TrEMBLrel. 19, Last annotation update)
MHC class II B locus 1 (Fragment).
Oreochromis niloticus (Nile tilapia) (Tilapia nilotica).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Meopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidei;
Cichlidae; Oreochromis.
                                                                                                                                                                   NON_TER
                                                                                                                                                                                                       "Linkage relationships and haplotype polymorphism class II B loci.";
Genetics 149:1527-1537(1998).
                                                                                                                                                                                                                                            MEDLINE=98315113; PubMed=9649539;
Malaga-Trillo E., Zaleska-Rutczynska Z., McAndrew B.,
Figueroa F., Sultmann H., Klein J.;
                                                                                                                                                      SEQUENCE
                                                                                                                                                                                            EMBL;
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Pred. No. 3e+04;
3; Mismatches
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Pred. No. 3e+04;
4; Mismatches
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   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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FAR7_CALVO
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FAR7_CALVO
FAR8_CALVO
FAR9_CALVO
BOML_PSEGU
BPP1_BOTJA
ALL5_CAVPO
FIBA_CAVPO
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P011158
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P17645
P19990
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6 locusta mig
8 oryctolagus
2 calliphora
6 calliphora
6 calliphora
7 calliphora
9 calliphora
1 calliphora
1 calliphora
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2 calliphora
3 sus scrofa
4 bothrops in
4 calliphora
5 sus scrofa
6 cydia pomon
6 nephrops no
6 nephrops no
6 cavia porce
7 oryza sativ
8 oncorhynchu
9 encorhynchu
9 encorhynchu
1 thunnus alb
2 sus scrofa
6 hordeum vul
5 clostridium
6 citrobacter
                                                                                                                                                                                                                                                                                                                                                                                                                                                            equus cabal
drosophila
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RESULT 2

OPS3_DROVI
ID OPS3_DROVI STANDARD; PRT; 12 AA.

AC P17645;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-AUG-1990 (Rel. 15, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Opsin Rh3 (Inner R7 photoreceptor cells opsin) (F
GN RH3.

OS Drosophila virilis (Fruit fly).

OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta
OC Neoptera; Endopterygota; Diptera; Brachycera; Mus
OC Ephydroidea; Drosophila.

OX NCBI_TaxID=7244;

Drosophila virilis (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID=7244;

8 8	3 W (O	00000000000000000000000000000000000000	R R R R R O O O O G	FIBA AC DT DT DE	R B S	
	Query Match Best Local Matches	-!- FUNC poly aggr -!- SUBU -!- PTM: -!- Whic and for Blood co PEPTIDE PEPTIDE SEQUENCE	Equus cab Equas cab Eukaryota Mammalia; NCBI_TaxI [1] SEQUENCE. Blomback "Studies Acta Chem	. .	RESULT 1	3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4
1 DFI 5 8FI	7	FUNCTION: polymerize aggregatio: SUBUNIT: H. (ALPHA, BE PIM: Conve which clea and thus e for the fo od coagulat IDE TER 1	caballus Yota; Meta lia; Euthe TaxID=9796 NCE. NCE. lies on fib lies on fib	gen 1990 1990		
DFMIQGG 7 : :: EFLHEGG 11	Similarity 3; Conservat	-!- FUNCTION: Fibrin polymerize into aggregation!- SUBUNIT: HEXAMER (ALPHA, BETA AND PM: Conversion which cleaves fill and thus exposes for the formation; peptide segulation; peptide NON TER 14 AA; 1	Equus caballus (Hors Equus caballus (Hors Eukaryota; Metazoa; Mammalia; Eutheria; NCBI_TaxID=9796; [1] SEQUENCE. SIOMBack B., Blomback B., Blomback Grem. Scand. 19	STA (Rel. (Rel. (Rel. alpha c		
́н ·	142 42.	Fibrinogen has ze into fibrin a zion. HEXAMER CONTAIN BETA AND GAMMA), Iversion of fibrinopep eaves fibrinopep exposes the N-t formation of the formation; Plasma. 1 14 14 14 14 14 14 14 14 14	us (Horse). letazoa; Chordata; ltheria; Perissoda)796; Blomback M., Gro fibrinopeptides f scand. 19:1789-179	STANDARD; l. 13, Creal l. 13, Last l. 42, Last l. 42, Last a chain [Col		10 10 10 11 13 13 13 13
	**	ma), main and man	lata les 113	:1 CT		
	Score Pred. 3; Mis	FUNCTION: Fibrinogen has a double polymerize into fibrin and acting aggregation. SUBUNIT: HEXAMER CONTAINING 2 SETS (ALPHA, BETA AND GAMMA), LINKED TO PTM: Conversion of fibrinogen to f which cleaves fibrinopeptides A an and thus exposes the N-terminal pofor the formation of the soft clot d coagulation; Plasma. TER 14 14 14 E998EB63	e). Chordata; Craniata; Perissodactyla; Equ R M., Grondahl N.J. eptides from mammal	PRT; d) equenc nnotat ains:	ALIG	ALL6 CARMA ALL9 CARMA ALL9 CARMA CCKN MACEU AMPN HELAM Q20G COMTE TPIS NICPL PKC1 CARMO CRBL VESTR GER1 HORVU NP3 LYMST TAL3 TREME COCO_LIMPO
	re 21; DB 1; Length d. No. 3.4e+02; Mismatches 1; Ind	function: as a cofac s OF 3 NONI O EACH OTHE fibrin is t nd B from a colymerizati t. 3C2A15E7 CF	iata; Vertebrata; ; Equidae; Equus. N.J.; ammals.";	PRT; 14 AA. ed) sequence update) annotation update) tains: Fibrinopeptide A)	ALIGNMENTS	CARMA CARMA MACEU HELAM COMTE NICPL CARMO VESTR HORVU TYMST TREME LIMPO
	gth 14; Indels	C H	Euteleostomi;	(Fragment)		P81819 P81819 P80369 P817369 P80466 P19118 P82684 P17231 P28525 P80180 P80180 P35586
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RESULT 3
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FlyBase; FBgn0013091; Dvir\Rn3.
InterPro; IPR000276; GPCR_Rhodpsn.
InterPro; IPR001760; Opsin.
PROSITE; PS00237; G PROTEIN RECEP F1_1; PARTIAL.
PROSITE; PS00238; OPSIN; PARTIAL.
Photoreceptor; Retinal protein; Transmembrane; Phosphorylation; Photoreceptor; Retinal protein; Transmembrane; Phosphorylation; Glycoprotein; G-protein coupled receptor; Vision.
Glycoprotein; Oprotein coupled receptor; Vision.
N-LINKED (GLCNAC. . .) (PROBABLE).
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MEDLINE=90249748; PubMed=2

Fortini M.E., Rubin G.M.;

"Analysis of cis-acting re
a bipartite organization t

melanogaster.";
                                                                                                                                                                                                      01-FEB-1991 (Rel. 17, Created)
01-FEB-1991 (Rel. 17, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Leucokinin VIII (L-VIII).
Leucophaea maderae (Madeira cockroach).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Ins
Neoptera; Orthopteroidea; Dictyoptera; Blatta
Blaberidae; Leucophaea.
             TISSUE=Head;
Holman G.M., Cook B.J., Nachman R.J.;
"Isolation, primary structure and synthesis of leucokinins VII
VIII: the final members of this new family of cephalomyotropic
peptides isolated from head extracts of Leucophaea maderae.";
Comp. Biochem. Physiol. 88C:31-34(1987).
-!- FUNCTION: This cephalomyotropic peptide stimulates contract
activity of cockroach protodeum (hindgut).
-!- SUBCELLULAR LOCATION: Secreted.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                             CBI_TaxID=6988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FUNCTION: Visual pigments are the light-absorbing molecules that mediate vision. They consist of an apoprotein, opsin, covalently linked to cis-retinal.

SUBCELLULAR LOCATION: Integral membrane protein.

MISCELLANEOUS: Each Drosophila eye is composed of 800 facets or ommatidia. Each ommatidium contains 8 photoreceptor cells (R1-R8), the R1 to R6 cells are outer cells, while R7 and R8 are inner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cells.
MISCELLANEOUS: Opsin Rh3 is sensitive to UV light SIMILARITY: Belongs to family 1 of G-protein coup. Opsin subfamily.
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optera; Blattaria; I
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Blaberoidea;
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Drosophila
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MEDLINE=77185324; PubMed=862769; Monnier M., Dudler L., Gachter R., N Schoenenberger G.A.; "The delta sleep inducing peptide (I the original and synthetic nonapepti Experientia 33:548-552(1977).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Neuropeptide;
MOD_RES
SEQUENCE 8 A
                                                                                                                                                                  P01158;
21-JUL-1986
21-JUL-1986
16-OCT-2001
                                                                                                                                                                                                               RABIT
DSIP_F
                                                                                                                                                                                                                                                                                                                                                                   Neuropeptide;
MOD_RES
SEQUENCE 8 A
                                                                                                                                        21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence up
16-OCT-2001 (Rel. 40, Last annotation
Delta sleep-inducing peptide (DSIP)
Oryctolagus cuniculus (Rabbit)
                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE=Corpora cardiaca; Schoofs L., Holman G.M., Hayes T.K., Nachman R.J., de Loof A.; Schoofs L., Holman G.M., Hayes T.K., Nachman R.J., de Loof A.; "Isolation, identification and synthesis of locustamyotropin II, additional neuropeptide of Locusta migratoria. Member of the cephalomyotropic peptide family."; Insect Biochem. 20:479-484(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-AUG-1991 (Rel. 19, Created)
01-AUG-1991 (Rel. 19, Last sequence update)
01-AUG-1991 (Rel. 19, Last annotation updat
Locustamyotropin 2 (LOM-MT-2).
Locusta migratoria (Migratory locust).
                                                                                                     Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Eu
Mammalia, Eutheria, Lagomorpha, Leporidae, Oryctolagus
NCBL TaxID=9986,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota, Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Orthopteroidea; Orthoptera; Caelifera; Acridomorpha Acridoidea; Acrididae; Oedipodinae; Locusta.
                                                                                  SEQUENCE
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PROSITE; PS00539; PYROKININ;
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8 AA; 934 MW; 26341771A9CAA87B
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75.0%;
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736365AB59CAADD8 CRC64;
                        nonapeptide
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RESULT 6
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P81012;
01-NOV-1997
01-NOV-1997
15-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=97468499; PubMed=9327586; Siegfried B.D., Ono M., Swanson J.J.; "Purification and characterization of a carboxylesterase ass with organophosphate resistance in the greenbug, Schizaphis (Homoptera: Aphididae)."; Arch. Insect Biochem. Physiol. 36:229-240(1997).

Arch. Insect Biochem. Physiol. 36:229-240(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Schizaphis graminum (Aphid).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta;
Neoptera; Paraneoptera; Hemiptera; Sternorrhyncha;
Aphidoidea; Aphididae; Aphidini; Schizaphis.
NCBI_TaxID=13262;
                                                                                                                                                                                                                                           -!- SUBCELLULAR LOCATION: Cytoplasmic.
-!- SIMILARITY: Belongs to the type-B ca
InterPro; IPR002018; CarbesteraseB.
PROSITE; PS00122; CARBOXYLESTERASE B 1;
PROSITE; PS00941; CARBOXYLESTERASE B 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence up
15-JUL-1998 (Rel. 36, Last annotation
Esterase 52 kDa subunit (EC 3.1.1.1)
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MEDLINE=79054421; PubMed=568769;

Schoenenberger G.A., Maier P.F., Tobler H.J., Wilson K., Monnier "The delta EEG (sleep)-inducing peptide (DSIP). XI. Amino-acid analysis, sequence, synthesis and activity of the nonapeptide.";

Pilugers Arch. 376:119-129(1978).
                                                                                                                                                                                                     Hydrolase;
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MEDLINE=97468499;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Delta-sleep-inducing peptide (DSIP): an update."; Peptides 7:1165-1187(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REVIEW
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stimulation of the thalamus.
DATABASE: NAME=Protein Spotlight;
NOTE=Issue 8 of March 2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FUNCTION: When infused into the mesodiencephalic ventricle of recipient rabbits induces spindle and delta EEG activity and reduced motor activities.

MISCELLANEOUS: This peptide was obtained from dialysates of occipital venous sinus blood from rabbits kept asleep by electric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WWW="http://www.expasy.org/spotlight/articles/sptlt008.html"
     A01422; QDRB.
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Pred. No. 1.2e.
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Aphidiformes;
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MOD_RES &
SEQUENCE 8 AF
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01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence up
01-NOV-1995 (Rel. 32, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
Calliphoridae; Calliphora.
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Duve H., Johnsen A.H., Sewell J.C., Scott A.G., Orchard I., Rehfeld J.F., Thorpe A.;
"Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH2 neuropeptides (designated callifMRFamides) from the blowfly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Calliphora vomitoria (Blue blowfly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
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MOD_RES
SEQUENCE
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Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Thoracic ganglion;
MEDLINE=92196111; PubMed=1549595;
Duve H., Johnsen A.H., Sewell J.C.,
Rehfeld J.F., Thorpe A.;
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TISSUE=Thoracic
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TISSUE=Thoracic
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                                                               PIR; A41978; A41978.
Neuropeptide; Amidation.
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salivary gland of Calliphora
similarity: Belongs to the Fi
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Proc. Natl. Acad. Sci. U.
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  AMIDATION.
29D00699CAB6C6C7 CRC64;
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Pred. No.
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CallifMRFamide 3.
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Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
-!- FUNCTION: Able to induce fluid secretion from the isolat salivary gland of Calliphora.
-!- SIMILARITY: Belongs to the FARP (FMRFamide related peptifamily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Thoracic ganglion;
MEDLINE=92196111; PubMed=1549595;
Duve H., Johnsen A.H., Sewell J.C.,
Rehfeld J.F., Thorpe A.;
Duve H., Johnsen A.H., Sewell J.C., Scott I Rehfeld J.F., Thorpe A.;
"Isolation, structure, and activity of -Phoneuropeptides (designated callifmRFamides) Calliphora vomitoria.";
Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330
                                                       TISSUE=Thoracic ganglion;
MEDLINE=92196111; PubMed=1549595;
NEWTO H.. Johnsen A.H., Sewell J.C.,
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Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
Calliphoridae; Calliphora.
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                                                                                                                     Calliphora vomitoria (Blue blowfly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
Calliphoridae; Calliphora.
NCBI_TaxID=27454;
                                                                                                                                                                                                                                                              CALVO
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01-NOV-1995 (Rel.
01-NOV-1995 (Rel.
                                                                                                 SEQUENCE.
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3; Conserv
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9 AA; 1128 MW;
                                                                                                                                                                                                                                                                                                                                                             Conservative
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100.0%;
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Last sequence update)
Last annotation update)
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  U.S.A. 89:2326-2330(1992)
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29D00699CAB6C5A7 CRC64;
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Pred. No. 1.4e+05;
0; Mismatches 0;
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Pred. No.
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fluid secretion from the isolated
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                                                                                                                                                                                                            update)
                                                             Scott A.G., Orchard I.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (FMRFamide related peptide)
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O. 1.4e+05;
0;
                          -Phe-Met-Arg-Phe-NH2
les) from the blowfly
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RESULT 12
FAR5_CALVO
ID FAR5_CALVO
AC PIN-NOV
DT 01-NOV
DT 01-NOV
DT 01-NOV
DC Callip
OS Callip
OC Bukary
OC Neokary
OC Callip
OC NEOKARY
OC TISSUE
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Best Local S
Matches 3
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Best Local S
Matches 3
                                                                                                        FARS CALVO
P41860;
01-NOV-1995
01-NOV-1995
01-NOV-1995
                                                                                                                                                                                                                                                                                                            Neuropeptide;
MOD_RES
SEQUENCE 9 A
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                              Calliphora vomitoria (Blue blowfly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oe
Calliphoridae; Calliphora.
NCBI TaxID=27454;
                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE=Thoracic ganglion;
MEDLINE=92196111; PubMed=1549595;
Duve H., Johnsen A.H., Sewell J.C.,
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Eukaryota; Metazoa; Arthropoda; Hexapoda;
Neoptera; Endopterygota; Diptera; Brachyce
Calliphoridae; Calliphora.
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01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation updat
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    -!- FUNCTION: Able to induce fluid secretion from the isolated
salivary gland of Calliphora.
    -!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
family.

                                                                                                                                                                                                                                                                                                                                               PIR;
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SEQUENCE.
TISSUE=Thoracic ganglion;
                                                                                              CalliFMRFamide
                                                                                                                                                                                                                                                                                                                                                                               Calliphora vomitoria.";
Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
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Rehfeld J.F., Thorpe A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=27454;
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                                                                                                                                                                                                                                                                                                                                                                                                         "Isolation, structure, and neuropeptides (designated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                D41978; D41978.
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3; Conserv
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(Rel. 32, Last sequence up)
(Rel. 32, Last annotation
                                                                                                                                                                                                                                                              34.0%; ilarity 100.0%; Conservative
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0; Mismatches
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31730699CAB6D457 CRC64;
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2F0B0699CAB6C5A7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             exapoda; Insecta; Pterygota;
Brachycera; Muscomorpha; Oestroidea;
                                                                                                                                                                                                                                                                                                                                                                        (FMRFamide related peptide)
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des) from the blowfly
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RESULT 14
FAR7_CALVO
ID FAR7_CALVO
AC P41862;
DT 01-NOV-1995
DT 01-NOV-1995
DT 01-NOV-1995
DT 01-NOV-1995
Calliphora v
OC Eukaryota; N
OC Neoptera; Er
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FAR6_CALVO
FAR6_CALVO
FAR6_CALVO
DT 01-NOV
DT 01-NOV
DT 01-NOV
DT Callip
OS Callip
OC Callip
OX NCBI_T
RN [1]
RP SEQUEN
RC MEDLIN
RC MEDLIN
RX Proc.
CC -!- SI
CC -!- 
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Best Local S
Matches 3
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Best Local S
Matches 3
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MOD_RES SEQUENCE 9 AI
                                                                                    P41862;
01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last seq
01-NOV-1995 (Rel. 32, Last ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           neuropeptides (ucce);
Calliphora vomitoria.";
Proc. Natl. Acad. Sci. U.S.A. 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE.

SEQUENCE.

SEQUENCE:

TISSUE=Thoracic ganglion;

MEDLINE=92196111; PubMed=1549595;

Duve H., Johnsen A.H., Sewell J.C., Scott A.G., Orchard I.,

Rehfeld J.F., Thorpe A.;

"Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH2

"Isolation, structure and activity of -Phe-Met-Arg-Phe-NH2

neuropeptides (designated calliFMRFamides) from the blowfly

Calliphora vomitoria.";

Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).

-!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
Calliphora vomitoria (Blue blowfly).

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Neuropeptide; Amidation.
MOD_RES 9 9
SEQUENCE 9 AA; 1058 M
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Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
Calliphoridae; Calliphora.
Calliphoridae; Calliphora.
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01-NOV-1995 (Rel. 32,
01-NOV-1995 (Rel. 32,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PIR;
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                                                                                                                                                                                                                                                                                                                                                                               Similarity 3; Conserv
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9 9
9 AA; 1068 MW
                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA; 1058 MW;
                                                                                                                                                                                 STANDARD;
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                                                                                              sequence up
annotation
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96D10699CAB6D865 CRC64;
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39D10699CAB6D867
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e FARP (FMRFamide related peptide)
                                                                                             on update)
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hes 0;
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FRF1_SARBU
ID FRF1
AC P8335
AC P8-FE
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28-FEB-2003
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Best Local (
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MEDLINE=92196111; PubMed=1549595;
Duve H., Johnsen A.H., Sewell J.C., Scott A.G., Ord
Rehfeld J.F., Thorpe A.;
"Isolation, structure, and activity of -Phe-Met-Arg
neuropeptides (designated calliFMRFamides) from the
Calliphora vomitoria.";
Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
-i- SIMILARITY: Belongs to the FARP (FMRFamide relations)
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Best Local 9
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FISSUE=Thoracic ganglion;

MEDLINE=92196111; PubMed=1549595;

Duve H., Johnsen A.H., Sewell J.C., Scott A.G., Orchard I.,

Rehfeld J.F., Thorpe A.;

"Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH2
neuropeptides (designated calliFMRFamides) from the blowfly

Calliphora vomitoria.";

Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).

Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
                                                                                                                 MOD_RES
UNSÜRE
SEQUENCE
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01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
01-NOV-1995 (Rel. 32, Last annotation update)
CallifMRFamide 10.
Calliphora vomitoria (Blue blowfly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
Calliphoridae; Calliphora.
NCBI_TaxID=27454;
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NCBI_TaxID=27454;
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E1D10699CAB6D86A CRC64;
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Pred. No. 1.4e+
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Pred. No.
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e FARP (FMRFamide related peptide)
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e FARP (FMRFamide related peptide)
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Sarcophaga bullata (Grey flesh fly) (Neobellieria bullata).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
Sarcophagidae; Sarcophaga.
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21-JUL-1986 (Rel. (
21-JUL-1986 (Rel. (
28-FEB-2003 (Rel. (
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                                                                                                                                                                                             MEDLINE=78026571; PubMed=914862;
Pleau J.-M., Dardenne M., Blouquit Y., Bach J.-F.;
"Structural study of circulating thymic factor: a peptide iso:
from pig serum. II. Amino acid sequence.";
J. Biol. Chem. 252:8045-8047(1977).
-!- MISCELLANEOUS: The biological source(s) and physiological
activities of this peptide have not been determined.
PIR; A01523; YFPG.
                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                      Pyrrolidone carboxylic acid.
MOD_RES 1 1
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Pred. No.
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01-FEB-1994 (Rel. 28, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Bradykinin-potentiating peptide S4,1,2 (Angiotensin-converting enzyme inhibitor).
Bothrops insularis (Island jararaca) (Queimada jararaca).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea; Viperidae; Crotalinae; Bothrops.

NCBI TaxID=8723;
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01-NOV-1995
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"Isolation, structure, ...
neuropeptides (designated callinguary comitoria.";
Calliphora vomitoria.";
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-i. FUNCTION: This peptide both inhibits the activity of tangiotensin-converting enzyme and enhances the action bradykinin by inhibiting the kinases that inactivate in tacts as an indirect hypotensive agent.

PIR; D37196; D37196.
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Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
Calliphoridae; Calliphora.
NCBL TaxID=27454;
                                                                                                                                                                                                                                                                                                                         TISSUE=Thoracic ganglion;
MEDLINE=92196111; PubMed=1549595;
Duve H., Johnsen A.H., Sewell J.C.,
Rehfeld J.F., Thorpe A.;
"Isolation, Faructure, and activity
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MOD_RES 1
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                                                                                                                                 Neuropeptide;
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ted calliFMRFamides) from the
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Simmaco M., Severini C., de Biase D., Barra D.
Roberts J.D., Melchiorri P., Erspamer V.;
"Six novel tachykinin- and bombesin-related pe
the Australian frog Pseudophryne guntheri.";
Peptides 11:299-304(1990).
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Skin.
-!- SIMILARITY: Belongs to the bombesin/neurom
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P42991;
01-NOV-1995
                                                                                                                                                                                               LT 21
BOTJA
BDP1 BOTJA
STANDARD; PRT; 13 AA.
P01020; P30421;
P01-7EB-1986 (Rel. 01, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Bradykinin-potentiating peptide S3,1 (13A) (Angiotensin-converting enzyme inhibitor V-9).
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MOD_RES
SEQUENCE
                                          SEQUENCE.
SEQUENCE.
SPECIES=B.jararaca; TISSUE=Venom;
SPECIES=B.jararaca; TISSUE=Venom;
MEDLINE=72118526; PubMed=4334402;
Charti M.A., Williams N.J., Sabo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bombesin-like peptide L (PG-L).
Pseudophryne guentheri (Guenther's toadlet).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea;
Myobatrachinae; Pseudophryne.
                                                                                                                 Bothrops jararaca (Jararaca), and Bothrops insularis (Island jararaca) (Queimada ja Eukaryota; Metazoa; Chordata; Craniata; Vertebra Lepidosauria; Squamata; Scleroglossa; Serpentes; Viperidae; Crotalinae; Bothrops.

NCBI_TaxID=8724, 8723;
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01-NOV-1995 (Rel. 32,
10-OCT-2003 (Rel. 42,
"Angiotensin-converting enzyme inhibitors from jararaca. Isolation, elucidation of structure, Biochemistry 10:4033-4039(1971).
                                         Kocy
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InterPro: IPR000874; Bombesin.
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3; Conserv
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                                                    E.F.,
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ca; Vertebrata; Euteleostomi;
Serpentes; Colubroidea;
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Myobatrachidae;
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SEQUENCE.
SPECIES=B.insularis; T
MEDLINE=90351557; Pub
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P82156;
30-MAY-2000
30-MAY-2000
Cydiastatin
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"Primary structure and biological activity of bradykinin potentiating peptides from Bothrops insularis snake venom.";
J. Protein Chem. 9:221-227(1990).
-!- FUNCTION: This peptide both inhibits the activity of the angiotensin-converting enzyme and enhances the action of bradykinin by inhibiting the kinases that inactivate it.

It acts as an indirect hypotensive agent.
                D1_NEPNO STANDARD; PRT; 9 AA.

P24816;

01-MAR-1992 (Rel. 21, Created)

01-MAR-1992 (Rel. 21, Last sequence update)

01-MAR-1992 (Rel. 21, Last annotation update)

01-MAR-1992 (Rel. 21, Last annotation update)

Gastrin/cholecystokinin-like peptide D1.

Nephrops norvegicus (Norway lobster).

Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;

Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Astacid
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Hypotensive agent; P
MOD_RES 1
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-!- SIMILARITY: Belongs to the allatostatin family.
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MEDLINE=98054539; PubMed=9392829;
MEDLINE=98054539; PubMed=9392829;
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Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia;
Tortricoidea; Tortricidae; Olethreutinae; Cydia.
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MOD_RES 8 8
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1 PYRROLIDONE CARBOXYLIC ACID
1388 MW; 6824FC97D83D6774 CRC64;
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Nephropoidea;

Nephropidae;

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RESULT 24
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01-JAN-1990
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Favrel P., Kegel G., Sedlmeier D., Keller R., van Wormhoudt A.;

"Structure and biological activity of crustacean gastrointestinal peptides identified with antibodies to gastrin/cholecystokinin.";

Biochimie 73:1233-1239(1991).

-!- FUNCTION: May control digestion processes in crustaceans.
-!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.
     Probable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cavia porcellus (Guinea pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Rodentia; Hystricognathi; Caviid
MCBI_TaxID=10141;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blomback B., Blomback M., Grondahl N.J.;
"Studies on fibrinopeptides from mammals.";
Acta Chem. Scand. 19:1789-1791(1965).
-!- FUNCTION: Fibrinogen has a double function: yielding monome:
-:- FUNCTION: Fibrinogen has a double function: yielding monome:
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01-JAN-1990 (Rel. 13, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation updat
Fibrinogen alpha chain [Contains: Fibrinope
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aggregation.
SUBUNIT: HEXAMER CONTAINING 2 SETS OF 3 NONIDENTICAL CHAINS
(ALPHA, BETA AND GAMMA), LINKED TO EACH OTHER BY DISULFIDE BONDS.
PTM: Conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves fibrinopeptides A and B from alpha and beta chains, and thus exposes the N-terminal polymerization sites responsible for the formation of the soft clot.

Dod coagulation; Plasma.
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     42, C
42, I
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1P04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1309 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     32.0%;
  Last sequence up Last annotation 4 (Fragments).
                                                                                                    Created)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Score 16; DB
; Pred. No. 3.1e
1; Mismatches
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Pred. No. 1.4e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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3;
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SA2A_ONCMY
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Best Local S
Matches 2
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Best Local Similarity
Matches 3; Conser
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SEQUENCE
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-!- MISCELLANEOUS: On the 2D-gel the determine and its MW is: 14.0 kDa

-!- SIMILARITY: Belongs to the profilin PROSITE; PS00414; PROFILIN; PARTIAL.
                                                                                                                                                                                                                                                                                                                 SA2A ONCMY STANDARD; PRT;
P82238;
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence up
16-OCT-2001 (Rel. 40, Last annotation
Salmocidin 2A (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hosseini Salekdeh S.G., Bennett J.;
"Proteome analysis of rice panicle.";
Submitted (JUL-2003) to Swiss-Prot.
-!- FUNCTION: Binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the
                                                                                                                                                                    Henry M.A., Secombes C.J.;
"Purification and partial characterization from rainbow trout, Oncorhynchus mykiss.";
Submitted (DEC-1999) to Swiss-Prot.
                                                                                                                                                                                                                                                                 Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
                                                                                               SEQÜENCE
                                                                                                            NON
                                                                                                                                -!- FUNCTION: Antibacterial activity against
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Plasma serum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Actin-binding; Cytoskeleton;
NON_TER 1 1
NON_CONS 5 6
NON_TER 13 13
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzeae; Oryza.
                                                                                                                                                                                                                      TISSUE=Serum;
                                                                                                                                                                                                                                                      NCBI_TaxID=8022;
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                                                                                                                       Antibiotic.
                                                                                                                                                                                                                                 EQUENCE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polymerization of actin, whereas it enhances it at I concentrations. By binding to PIP2, it inhibits the IP3 and DG (By similarity).
SUBUNIT: Occurs in many kinds of cells as a complex actin in a 1:1 ratio.
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                                                           Similarity
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                      FMIQG
FVLKG
                                                                                                                                                                                                                                AND FUNCTION.
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3 AA;
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75.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 16; DB Pred. No. 3.1e
1; Mismatches
                                                           Score 16; I
Pred. No. 3
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                                                                        DB 1;
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                                                            1e+03
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                                                                                                                                                          Gram-negative
                                                                                               CRC64;
                                                                                                                                                                                               antibacterial peptides
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                                                                        Length 13;
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RESULT 27
SA2B ONCMY
SA2B C
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Best Local :
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21-JUL-1986 (Rel. 01, Last seque
10-OCT-2003 (Rel. 42, Last annor
Trp operon leader peptide.
Trp or TRPEE OR B1265 OR C5494
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_ECOLI
_LPW_I
                                                                                                          SEQUENCE FROM N.A.
SECIES=E.coli;
SPECIES=76240562; Pub
Schuires C., Lee F., !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   P82239;
16-OCT-2001
16-OCT-2001
10-OCT-2003
[3]
SEQUENCE
                                                                                                                                                                                                                             SPECIES=E.coli;
MEDLINE=82150258; PubMed=7038627;
Yanofsky C., Platt T., Crawford I.P.,
Horowitz H., van Cleemput M., Wu A.M.
"The complete nucleotide sequence of tescherichia coli.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  from
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleost
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleost
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus
                                                                                                                                                                                                                                                                                                                                                                                   Enterobacteriaceae; Esc. NCRT TaxID=562, 217992,
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Escherichia coli,
Escherichia coli 06,
Escherichia coli 0157:H7,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S4805
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                                                                                                                                                                                        Nucleic Acids
                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                    Shigella flexneri.
Bacteria; Proteobacteria; Gammaproteobacteria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Henry M.A.,
                                                  "Nucleotide sequence
Escherichia coli.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Henry M.A., Secombes C.J.;
"Purification and partial characterization from rainbow trout, Oncorhynchus mykiss.";
Submitted (DEC-1999) to Swiss-Prot.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=8022;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ISSUE=Serum;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FUNCTION: Antibacterial activity against SUBCELLULAR LOCATION: Secreted.
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                                                                                                             PubMed=781271;
., Bertrand K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1400 MW;
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Pred. No.
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                                                                                                             Squires C.L.,
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                                                                         of tryptophan
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                                                                                                                                                                                                                                                tryptophan
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[7]
SEQUENCE FROM N.A.
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SPECIES=E COli; STRAIN=0157:H7 / RIMD USUJJJJ,
SPECIES=E Coli; STRAIN=0157:H7 / RIMD USUJJJJ,
MEDLINE=21156231; PubMed=11258796;
MEDLINE=21156231; Pu
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MEDLINE=80101455; PubMed=118451;
Oxender D.L., Zurawski G., Yanofsky C.;
Oxender in the Escherichia coli tryptophan operon:
"Attenuation in the Escherichia coli tryptophan operon:
secondary structure involving the tryptophan codon region Proc. Natl. Acad. Sci. U.S.A. 76:5524-5528(1979).
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SPECIES=E.coli; STRAIN=06:H1 / CFT073 / ATCC 700928;

MEDLINE=22388234; PubMed=12471157;

Welch R.A., Burland V., Plunkett G. III, Redford P., Ro
Rasko D., Buckles E.L., Lister, P., Boutin A., Hackett
Rasko D., Buckles E.L., Zhou S., Schwartz D.C., Perna N
Mayhew G.F., Rose D.J., Zhou S., Schwartz D.C., Perna N
Mobley H.L.T., Donnenberg M.S., Blattner F.R.;

"Extensive mosaic structure revealed by the complete ge
of uropathogenic Escherichia coli.";

Proc. Natl. Acad. Sci. U.S.A. 99:17020-17024 (2002).
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                                                                                                                                                                                                                                                                                                                                                                        SPECIES=S.flexneri; STRAIN=301 / Serotype 2a; MEDLINE=22272406; PubMed=12384590; Jin Q., Yuan Z., Xu J., Wang Y., Shen Y., Lu W., Wayang J., Yang G., Wu F. Yang J., Yang F., Zhang X., Zhang J., Yang G., Wu F. Sun L., Xue Y., Zhao A., Gao Y., Zhu J., Kan B., Di Sun L., Xue Y., Zhao A., Gao Y., Zhu J., Qiang B., Cheng H., Yao Z., He B., Chen R., Ma D., Qiang B.,
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Riley M., Collado-Vides J., Glasner J.
Gregor J., Davis N.W., Kirkpatrick H.A
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SEQUENCE FROM N.A.
STRAIN=K12
Thinked=9:
                                                                    SPECIES=S.flexneri; STRAIN=2457T / MEDLINE=22590274; PubMed=12704152; Wei J., Goldberg M.B., Burland V., Fournier G., Mayhew G.F., Plunkett Mau B., Perna N.T., Payne S.M., Rur Schwartz D.C., Blattner F.R.;
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MEDLINE=21074935; PubMed=11206551;
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Welch R.A., Blattner F.R.;
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Nature 409:529-533(2001).
"Complete genome sequence and comparative flexneri serotype 2a strain 2457T."; Infect. Immun. 71:2775-2786(2003).
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EMBL; A04494; CAA00361.1; -.
EMBL; AE000224; AAC74347.1; -.
EMBL; AE016760; AAN80196.1; -.
EMBL; AE005380; AAG56550.1; -.
EMBL; AP002556; BAB35260.1; -.
EMBL; AE015153; AAN42881.1; -.
EMBL; AE016982; AAP16766.1; -.
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01-NOV-1990 (Rel. 16, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
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Angiotensin-converting enzyme inhibitor.
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MEDLINE=88326322; PubMed=3415688;
Kohama Y., Matsumoto S., Oka H., Teramoto T., Okabe M., Min "Isolation of angiotensin-converting enzyme inhibitor from
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SPECIES=R.ridibunda; TISSUE=Brain;
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SPECIES=R.ridibunda; TISSUE=Brain;
SPECIES=R.ridibunda; TISSUE=Brain;
MEDLINE=92044543; PubMed=1658233;
O'Harte F., Burcher E., Lovas S., Smith D.D., Vaudry H., Conlon J.M.
"Ranakinin: a novel NXI tachykinin receptor agonist isolated with neurokinin B from the brain of the frog Rana ridibunda.";
J. Neurochem. 57:2086-2091(1991).
-!- FUNCTION: Tachykinins are active peptides which excite neurons, evoke behavioral responses, are potent vascdilators and secretagogues, and contract (directly or indirectly) many smooth
                                                                                                                                                                                                                             01-DEC-1992
01-DEC-1992
16-OCT-2001
Germin GS2 (1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-JUL-1986
21-JUL-1986
16-OCT-2001
                       stress.";
Plant Physiol. 97:366-374(1991).
-!- FUNCTION: May play a role in al during germinative growth.
-!- SUBUNIT: Oligomer (believed to
                                                                                                                                                                                                                                                                                                               HORVU
                                                                                                                                                                                     Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidea
                                                                                                                                                                                                                                                                                                 GER2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SPĒCIES-Pig; TISSUE-Spinal cord;
MEDLINE-83282812; PubMed-6576785;
Kangawa K., Minamino N., Fukuda A., Matsuo H.;
"Neuromedin K: a novel mammalian tachykinin identified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9823, 840
                                                                                                          Hurkman W
                                                                                                                                                                                                                                                                                    P28526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tachykinin; Neuropeptide; Amidation
MOD_RES 10 10 AMIDAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR002040; Tachy Neurokinin
PROSITE; PS00267; TACHYKININ; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sus scrofa (Pig), and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Neurokinin B
TAC3 OR NKNB
                                                                                                                         STRAIN-cv.
                                                                                                                                      SEQUENCE.
                                                                                                                                                                                                     Hordeum vulgare (Barley).
Eukaryota; Viridiplantae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -!- SUBCELLULAR LOCATION:
-!- SIMILARITY: Belongs to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Biochem. Biophys. Res. Commun. 114:533-540(1983).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             spinal cord
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rana ridibunda
                                                                                              "Germin-like
                                                                                                                                                              NCBI_TaxID=4513;
(By similarity). SUBCELLULAR LOCATION: SOLUBLE, MICROSOMAL AND CELL WALL FRACTIONS
                                                                                                                                                                                                                                                                                                 THORVU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A01560; SPPGNK.
                                                                                                                                                                                                                                                                                                                                                                   4 DFFV 7
                                                                                                                                                                                                                                                                                                                                                                                                                     2;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                             DFMI 4
                                                                                          CM 72; TISSUE=Root;
J., Tao H.P., Tanaka C.K.;
ke polypeptides increase in
                                                                                                                                                                                                                              (Fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    W
                                                                                                                                                                                                                                         (Rel. 24, Created)
(Rel. 24, Last sequence up
(Rel. 40, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (Rel. 01, Created)
(Rel. 01, Last sequence update)
(Rel. 40, Last annotation update)
3 (NKB) (Neuromedin K).
                                                                                                                                                                                                                                                                                                  STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (Laughing frog) (Marsh frog).
zoa; Chordata; Craniata; Vertebrata;
ria; Cetartiodactyla; Suina; Suidae;
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E1FA7C62C9C9CAA1 CRC64;
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                                                      altering the
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p
                                                                                                                                                                                                                                             update)
                                                                                              barley
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3.8e+03;
                           pentamer but probably hexamer)
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                                                      properties
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Sus.
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RESULT
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RC ST
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Best Local (
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15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
15-JUL-1998 (Rel. 36, Last annotation update)
15-JUL-1998 (Rel. 36, Last annotation update)
Unknown protein CP 10 from 2D-page (Fragment).
                                                                                                            21-JUL-1986 (Rel. 0
21-JUL-1986 (Rel. 0
01-MAY-1991 (Rel. 1
Trp operon leader p
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-!- SIMILARITY: Belongs to the germin family.
InterPro; IPR001929; Germin.
PROSITE; PS00725; GERMIN; PARTIAL.
Apoplast; Cell wall; Glycoprotein; Multigene family.
UNSURE 10 10
NON TER 13 13
SEQUENCE 13 AA; 1484 MW; 43FB4A1AA3B7B6D7 CRC64;
                                                                                                                                                                                                                                                                                                                                                           MEDLINE=98291870; PubMed=9629918;

Flengsrud R., Skjeldal L.;

Flengsrud R., Skjeldal L.;

"Two-dimensional gel electrophoresis separation and N-terminal sequence analysis of proteins from Clostridium pasteurianum W5 Electrophoresis 19:802-806(1998).

-i- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF THIS UNKO PROTEIN IS: 5.2, ITS MW IS: 52.5 kDa.
                                                                                                                                                                           MAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
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Blumenberg M.,
            SEQUENCE FROM N.A. MEDLINE=83007061; PubMed=6749821;
                                                                                                                                                             P03056;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN=W5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=1501;
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                                             Enterobacteriaceae;
NCBI_TaxID=546;
                                                                                     Citrobacter freundii.
                                                                         Bacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ostridium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE SPECIFICITY: Roots and coleoptile. In roots, present in the mature region, but not in the tip. Not detected in leaves.
INDUCTION: Increased by salt stress in roots and decreased by salt
                                                                                                                                                                         CITER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INDUCTION: Increased by salt stress stress in coleoptile.
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3; Conserv
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                                                             Proteobacteria; Gamma:
teriaceae; Citrobacter
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18, Last annotation
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75.0%;
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                                                                      Gammaproteobacteria;
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Pred. No. 4.9e
0; Mismatches
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Pred. No. 4.9e
0; Mismatches
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                                                                         Enterobacteriales;
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P81812; 30-MAY-2000 30-MAY-2000 30-MAY-2000

CARMA

STANDARD;

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AA.

30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
Carcinustatin 9.

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RESULT 35
ALL9_CARMA
ALL9_CARMA
CALC9_CAC P61872
DT 30-MAY
DT 30-MAY
DT 30-MAY
CARCIN
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AL16_CARMA
ID AL16_CARMA
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DT 30-MAY

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Matches 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              allatostatin superfamily in the shore crab (Eur. J. Biochem. 250:727-734(1997).

-!- FUNCTION: May act as a neurotransmitter
-!- SIMILARITY: Belongs to the allatostatin
Neuropeptide; Amidation; Multigene family.
MOD RES
8 AA; 813 MW; 7C286B45AB476878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Carcinustatin 16.
Carcinus maenas (Common shore crab) (Green crab).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu
Eubrachyura; Portunoidea; Portunidae; Carcinus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation updat
Carcinustatin 16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                operon regulatory region: com
J. Bacteriol. 152:57-62(1982)
-!- FUNCTION: THIS PROTEIN IS
OF TRYPTOPHAN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tryptophan SEQUENCE
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PIR; A03592; LFEBWC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Evolutionary divergence of the Citrobacter freundii tryptophan operon regulatory region: comparison with other enteric bacteria.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE=Cerebral ganglion, and Thoracic ganglion; MEDLINE=98121193; PubMed=9461295; Duve H., Johnsen A.H., Maestro J.-L., Scott A.G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Thorpe A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=6759;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'Isolation and identification of multiple neuropeptides of allatostatin superfamily in the shore crab Carcinus maenas.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARMA
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2; Conserv
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2; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28.0%;
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40.0%;
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MW; 5B792A473E8048E7 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Score 14; DB; Pred. No. 1.4e
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Pred. No.
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RESULT 36
CCKN_MACEU
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AC P3036
DT 01-AI
DT 10-Q
QE Chol(
GN CCK.
OS Macr
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OC Euke
OC Mamm
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SPECIES=M.eugenii,
TISSUE=Brain;
                                                                                                                                                                                                                                                                                                                                                   Macropus eugenii (Tammar wallaby), and Dasyurus viverrinus (Southeastern quoll). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Metatheria; Diprotodontia; Macropodidae; Macropus. NCBI_TaxID=9315, 9279;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MACEU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Carcinus maenas (Common shore crab) (Green crab).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;
Eubrachyura; Portunoidea; Portunidae; Carcinus.
NCBI TaxID=6759;
                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                  MEDLINE=88234141; PubMed=3375140; Fan Z.W., Eng J., Shaw G., Yalow R.S.; "Cholecystokinin octapeptide purified from brains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            allatostatin superfamily in the shore Eur. J. Biochem. 250:727-734(1997).
                                                                                                                                                                                                                                                        marsupials."
                                                                                                                                 Amidation;
                                                                                                                                                                                                                                                                                                                                                                                                                                        01-APR-1993 (Rel.
10-OCT-2003 (Rel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             P30369;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Cerebral ganglion, and Thoracic ganglion, MEDLINE=98121193; PubMed=9461295;
                                                                                                                                                                                                                                                                                                                                                                                                                              Cholecystokinin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-APR-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Isolation and identification of multiple neuropeptides
                                                                                                           RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . J. Biochem. 250:727-734(1997).
FUNCTION: May act as a neurotransmitter
SIMILARITY: Belongs to the allatostatin
                                                                                                                                                                                SIMILARITY:
; A43001; A43
                                                                                                                                                                                    ides 9:429-431(1988).
FUNCTION: This peptide hormone induces and the release of pancreatic enzymes i the brain is not clear.
SIMILARITY: Belongs to the gastrin/chol
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                                                                                                                                            IPR001651; Gastrin.
9S00259; GASTRIN; 1.
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                                                                                                                                 Sulfation; Hormone
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8 AMIDATION
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1. 42, I
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Last annotation updat
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                                                                                               DDCAA68378768B5A CRC64;
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1; Mismatches
                                                                                                         SULFATION.
AMIDATION.
                                              Score 14; DB 1; Le
Pred. No. 1.4e+05;
1; Mismatches 0;
                                                                                                                                                                                            gastrin/cholecystokinin family.
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                                                                                                                                                                                                                    s gall bladder contraction in the gut. Its function :
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                                                                     Length 8;
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RESULT 38
Q2OG_COMTE
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                                                                                                                                                                                                                             STRAIN=63;
MEDLINE=96035889; PubMed=7556204;
Schach S., Tshisuaka B., Fetzner S., Lingens F.;
Schach S., Lingens F.;
Sc
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-!- FUNCTION: ACTS AS A RECEPTOR FOR B.THURIGIENSIS TOXIN CRYIAC.
-!- CATALYTIC ACTIVITY: Release of an N-terminal amino acid, Xaa-|
Xbb- from a peptide, amide or arylamide. Xaa is preferably Ala
but may be most amino acide including Pro (slow action). When
terminal hydrophobic residue is followed by a prolyl residue,
two may be released as an intact Xaa-Pro dipeptide.
-!- COFACTOR: Binds 1 zinc ion per subunit (By similarity).
-!- SIMILARITY: Belongs to peptidase family M1.
InterPro; IPR006025; Pept M Zn BS.
PROSITE; PS00142; ZINC PROTEASE; PARTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Quinoline 2-oxidoreductase, gamma chain (EC 1.3.99.17) (Fragment).
Comamonas testosteroni (Pseudomonas testosteroni)
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P81731;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bacteria;
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30-MAY-2000 (Rel. 39, Last sequence up)
15-MAR-2004 (Rel. 43, Last annotation )
Aminopeptidase N (EC 3.4.11.2) (CryIA()
Helicoverpa armigera (Cotton bollworm)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-MAY-2000 (Rel.
30-MAY-2000 (Rel.
15-MAR-2004 (Rel.
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Noctuidae; Heliothinae; Helicoverpa.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EQUENCE
                                                                                               dihydroquinoline.
- CATALYTIC ACTIVITY: C
- 1(2H)-one + reduced a
- COFACTOR: FAD, molybd
                                                                      PATHWAY:
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Endopterygota; Lepidoptera; Glossata; Ditrysia; Noctuoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                          + reduced acceptor.
: FAD, molybdenum and
Degradation of quinol
Heterohexamer of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N., Prasad R., Rao K.K., Chatpar H.S.; s a receptor for Bacillus thuringiensis CryIAc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28.0%;
                                                                                                                                                                     Quinoline
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Aminopeptidase; Zinc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14; DB Pred. No. 5.9e 1; Mismatches
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                                                                   iron-sul
line and
                                                                                                                                                                        +
alpha chains,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               update)
                                                                                                                                                                        acceptor +
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                                                                      (3-methyl-)quinoline;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CRC64;
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     t wo
                                                                                                                                                                                                                                        (3-methyl-)2-oxo-1,2-
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     beta
                                                                                                                                                                        isoquinolin-
                                                                                                                                                                                                                                                                                                                                          e 5,6-
enzymes
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PKC1_CA
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AC PA
AC PA
AC 16
DT 16
DT 16
OC CA
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Best Local S
Matches 2
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Best Local S
Matches 3
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01-NOV-1990 (Rel. 16, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
01-FEB-1996 (Rel. 3, Last annotation update)
Triosephosphate isomerase, cytosolic (EC 5.3.1.1) (TIM) (Fragment).
Nicotiana plumbaginifolia (Leadwort-leaved tobacco).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
NCBI_TaxID=4092;
[1]
                                                                                                                                                                                                                                                                                                            Pentose shunt.
NON TER 10
SEQUENCE 10 1
           Carausius morosus (Indian stick insect).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta;
Neoptera; Orthopteroidea; Phasmatodea; Euphasmida;
Heteronemiidae; Carausius.
NCBI_TaxID=7022;
                                                                         P82684;
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Pyrokinin-1 (Cam-PK-1) (FXPRL-Amide)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bauw G., de Loose M., Inze D., van Montagu M., Vandekerckhove J.; "Alterations in the phenotype of plant cells studied by NH2-terminal amino acid-sequence analysis of proteins electroblotted from two-dimensional gel-separated total extracts."; Proc. Natl. Acad. Sci. U.S.A. 84:4806-4810(1987).

Proc. Natl. ACTIVITY: D-glyceraldehyde 3-phosphate = glycerone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 two gamma chains (Probable Oxidoreductase; Flavoprotein; NON_TER 10 10 SEQUENCE 10 AA; 1153 MW; C
                                                                                                                                                      CARMO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE.
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                                                                                                                                                                                                                                                                                                                                                     somerase;
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PATHWAY: Plays an important role in several metabolic SUBUNIT: Homodimer.

SUBCELLULAR LOCATION: Cytoplasmic (Probable).

MISCELLANEOUS: In plants, there are two types of TPIS,
                                                                                                                                                                                                                                                                                                                                                A27617; A27617.
rPro; IPR000652; Triophos_ismrse.
ITE; PS00171; TIM; PARTIAL.
erase; Glycolysis; Gluconeogenesis;
                                                                                                                                           CARMO
                                                                                                                                                                                                                                                         Similarity 2; Conserv
                                                                                                                                                                                                                                                                                                                                                                                         plastid.
ILARITY: Belongs to the triosephosphate isomerase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity 3; Conserv
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0 AA;
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                                                                                                                                           STANDARD;
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                                                                                                                                                                                                                                                                                                             MW;
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Pred. No.
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                                                                                                                                          PRT;
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                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                 Fatty acid biosynthesis;
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                                                                                                                                                                                                                                                                       9e+03;
                                                                                                                                                                                                                                                                                                             CRC64;
                                                                                                                                                                                                                                                                                   Length 10;
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RESULT 42
GER1_HORVU
ID GER1_H
AC p28525
DT 01-DEC
DT 16-OCT
DE Germin
OS Hordeu
OC Eukary
OC Sperma
OC NCBI_I

GERI HORVU STANDARD; PRT; 13 AA.

P28575;

01-DEC-1992 (Rel. 24, Created)
01-DEC-1992 (Rel. 24, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Germin GS1 (Fragment).
Hordeum vulgare (Barley).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidea;
Triticeae; Hordeum.

NCBI_TaxID=4513;

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RESULT
CRBL VE
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Best Local S
Matches 2
                                                                                          Matches
                                                                                                                Query Match
Best Local :
                                                                                                                                                                                      Mast cell
MOD_RES
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CRBL_VE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Ves Vespidae; Vespinae; Vespa.

Vespidae; TaxID=7450;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-AUG-1990 (Rel. 15, Created)
01-AUG-1990 (Rel. 15, Last sequence updated)
28-FEB-2003 (Rel. 41, Last annotation updated)
Vespid chemotactic peptide T (VESCP-T).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Neuropeptide; Amidation; Pyrokinin. MOD_RES 11 11 AMIDAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 insect, Carausius morosus (Phasm
Eur. J. Entomol. 96:275-278(1999)
-!- FUNCTION: Mediates visceral
                                                                                                                                                                                                                                                                                                                                 Yasuhara T., Nakajima T., (In) Sakakibara S. (eds.); Peptide chemistry 1982, pp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -!- MASS SPECTROMETRY: MW=1235; METHOD=MALDI.
-!- SIMILARITY: Belongs to the pyrokinin family.
InterPro; IPR001484; Pyrokinin.
PROSITE; PS00539; PYROKININ; FALSE_NEG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vespa tropica (Hornet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Predel R., Kellner R., Gaede G.;
"Myotropic neuropeptides from the retrocerebral complex "myotropic neuropeptides from the retrocerebral complex "insect, Carausius morosus (Phasmatodea: Lonchodidae).";
                                                                                                                                                                                                                                                                                   Osaka (1983).
-!- FUNCTION: Mast cell degranulating
                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE=Venom;
                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE=Corpora cardiaca;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE, FUNCTION,
                                                                                                                                                                                                                                                                 of neutrophils.
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                                                                                                                                                                                  cell degranulation; Chemotaxis; Amidation.
RES 13 13 AMIDATION.
ENCE 13 AA; 1354 MW; 220140365DFE5338 CRC64;
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œ
                                            4 IQGG 7
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                                                                                        Similarity
3; Conserv
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2; Conserv
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                                                                                          Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AND MASS SPECTROMETRY
                                                                                                                  28.0%;
75.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28.0%;
66.7%;
                                                                                                                                                                                                                                                                                                                                   pp.213-218, Protein Research Foundation
                                                                                                                                                                                                                                                                                                                                                                                 Erspaer V.;
                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14; DB:
Pred. No. 6.5e
1; Mismatches
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                                                                                                                  Score 14;
Pred. No.
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2BFA5225BB46C1A8 CRC64;
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RESULT 43

NP3_LYMST

ID NP3_L

AC P8018

DT 01-JU

ENT 1SSI

RA Johns

RT 1Lymns

RT 1Lymns
RESULT 44
TA13_TREME
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SEQUENCE.
STRAIN=cv. CM 72; TISSUE=Root;
STRAIN=tv. CM 72; TISSUE=Root;
Hurkman W.J., Tao H.P., Tanaka C.K.;
"Germin-like polypeptides increase in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -!- SUBCELLULAR LOCATION: SOLUBLE, MICROSOMAL AND CELL WALL FRACTIONS.
-!- TISSUE SPECIFICITY: Roots and coleoptile. In roots, present in the mature region, but not in the tip. Not detected in leaves.
-!- INDUCTION: Increased by salt stress in roots and decreased by salt

    -!- FUNCTION: May play a role in altering the properties of cell
walls during germinative growth.
    -!- SUBUNIT: Oligomer (believed to be a pentamer but probably hexamer)

                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                   MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=93238777; PubMed=8477756;
Johnsen A.H., Rehfeld J.F.;
"LymnaDFamides, a new family of no
Lymnaea stagnalis. Clue to cholect
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lymnaea stagnalis (Great pond snail).
Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Basommatophora;
Lymnaeoidea; Lymnaeidae; Lymnaea.
NCBI TaxID=6523;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P80180;
01-JUL-1993
01-JUL-1993
01-JUL-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FISSUE=Ganglion;
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Apoplast; Cell wall; Glycoprotein; Multigene family.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Invertebrates?";
3ur. J. Biochem. 213:875
-!- SIMILARITY: RELATED
PIR; S32473; S32473.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Jymna-DF-amide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             213:875-879(1993).
RELATED TO THE CHOLECYSTOKININ
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Last annotation updat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ly of neuropeptides from the pond snail, cholecystokinin immunoreactivity in
                                                                                                                                                                                                                                                          Score 14; DB 1;
Pred. No. 7.7e+0:
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14; DB Pred. No. 7.7e

1; Mismatches
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RESULT
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                                                                                                                            Query Match
Best Local S
Matches 3
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P01370;
21-JUL-1986 (Rel. C
21-JUL-1986 (Rel. C
10-OCT-2003 (Rel. 4
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01-JUN-1994
                                                                                                                                                                                                                                                                                                Hydrolase; NON_TER
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Sakagami Y., Yoshida M., Isogai A., Suzuki A.;
Sakagami Y., Yoshida M., Isogai A., Suzuki A.;
"Peptide sex hormones inducing conjugation tube formation
"Peptide sex hormones inducing conjugation tube formation
"Peptide sex hormones inducing conjugation tube formation";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-JUN-1994 (Rel. 29, Created)
01-JUN-1994 (Rel. 29, Last sequence up
28-FEB-2003 (Rel. 41, Last annotation
Cocoonase (EC 3.4.21.-) (Fragment).
Limulus polyphemus (Atlantic horseshoe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tremella mesenterica (Jelly fungus).
Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Heterobasidiomycetes;
Tremellomycetidae; Tremellales; Tremellaceae; Tremella.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa;
Limulidae; Limulus.
                                                                                                                                                                                                                                                                                                                                                                PROSITE; PS50240; TRYPSIN_DOM; PROSITE; PS00134; TRYPSIN_HIS; PROSITE; PS00135; TRYPSIN_SER;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Insect proteases and peptidases.";
Adv. Enzymol. Relat. Areas Mol. Biol. 45:389-425(1977).
-!- CATALYTIC ACTIVITY: Preferential cleavage: Arg-, Lys-.
-!- SUBCELLULAR LOCATION: Extracellular.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LIMPO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=78037243; PubMed=335821; Law J.H., Dunn P.E., Kramer K.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEROPS; S01.11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Law J.H., Dunn P.E., I
"Insect proteases and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=5217;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    [nterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SIMILARITY: Belongs to peptidase family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       llidae; Limulus.
[_TaxID=6850;
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                                                                                                                                                                                                                                                                  14 AA;
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01, Last sequence 42, Last annotation
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                                                                                                                                                                                                                                                                    1452 MW;
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                                                                                                                                                              28.0%;
75.0%;
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conjugation tubes in a mating-type cells.
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Pred. No.
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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S72217
JS0318
PU0029
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glycoprotein hormody glycoprotein hormody glycoprotein hormody glycoprotein hormody glycoprotein hormody glycoprotein chair receptor be sperm-activating py leucokinin VIII delta sleep-inducting py leucokinin vIII sperm-activating py leucokinin CRD ligheavy chain CRD ligheavy chain CRD ligheavy chain CRD ligheavy chain buretinal oxidase protein kinase circell receptor be recell receptor be recell receptor be collagen alpha 1 (Vribulose-bisphosph
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T-cell receptor be
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RESULT 3 A61309

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GGDF 9 |||| GGDF 11

PH0945 T-cell receptor beta chain V-D-J region (clone 16) - rat C;Species: Rattus norvegicus (Norway rat) C;Date: 09-Oct-1992 #sequence_revision 09-Oct-1992 #text_C;Accession: PH0945 R;Gold, D.P.; Offner, H.; Sun, D.; Wiley, S.; Vandenbark, J. Exp. Med. 174, 1467-1476, 1991 A;Title: Analysis of T cell receptor beta chains in Lewis A;Reference number: PH0891; MUID:92078857; PMID:1836012 A;Accession: PH0945 A;Molecule type: mRNA A;Residues: 1-14 <gol> A;Note: the authors translated the codon TTC for residue C;Keywords: T-cell receptor Query Match Best Local Similarity 100.0%; Pred. No. 1.1e+02; Matches 4; Conservative 0; Mismatches 0; Ir</gol>	Query Match Best Local Similarity 100.0%; Pred. No. 33; Matches 5; Conservative 0; Mismatches 0; Qy 1 DFMIQ 5 Db 5 DFMIQ 9	RESULT 1 B60769 Ig H2 chain - Pacific hagfish (fragment) C;Species: Eptatretus stouti (Pacific hagfish) C;Ante: 03-Jun-1993 #sequence_revision 03-Jun-1993 #te. C;Accession: B60769 R;Hanley, P.J.; Seppelt, I.M.; Gooley, A.A.; Hook, J.W J. Immunol. 145, 3823-3828, 1990 A;Title: Distinct Ig H chains in a primitive vertebrat A;Reference number: A60769; MUID:91060965; PMID:212322 A;Accession: B60769 A;Status: preliminary A;Molecule type: protein A;Residues: 1-11 <han></han>	30 18 36.0 14 2 E33098 31 18 36.0 14 2 PH1347 32 18 36.0 14 2 PH1598 33 17 34.0 8 2 H41978 34 17 34.0 9 2 A60957 36 17 34.0 9 2 A41978 39 17 34.0 9 2 B41978 39 17 34.0 9 2 C41978 40 17 34.0 9 2 C41978 41 17 34.0 9 2 E41978 42 17 34.0 9 2 E41978 43 17 34.0 9 2 F41978 44 17 34.0 9 2 F41978 45 17 34.0 10 2 F60788
- rat (fragment) ttext_change 30-May-1997 ibark, A.A.; Wilson, D.B. Lewis rats with experimental allergion: 5012 mmunized lymph node sidue 11 as Ser Length 14; 2; Length 14; 2; Indels 0; Gaps 0;	Length 11; ; Indels 0; Gaps 0;	#text_change 03-Jun-1993 J.W.; Raison, R.L. rate, Eptatretus stouti. 3225	Ig heavy chain DJ Ig H chain V-D-J r callifMRFamide 8 - thymic factor - pi thymocyte growth p callifMRFamide 1 - callifMRFamide 2 - callifMRFamide 2 - callifMRFamide 5 - callifMRFamide 6 - callifMRFamide 7 - sperm-activating p sperm-activating p

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Ig H chain V-D-J region (wild-type clone 9) - mouse (fragmen C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 02-Jun-1994 #sequence_revision 02-Jun-1994 #text_cha C;Accession: PH1585
R;Levinson, D.A.; Campos-Torres, J.; Leder, P.
J. Exp. Med. 178, 317-329, 1993
A;Title: Molecular characterization of transgene-induced imm A;Reference number: PH1580; MUID:93301609; PMID:8315387
A;Accession: PH1585
A;Molecule type: DNA
A;Residues: 1-13 <LEV>
A;Experimental source: bone marrow pre-B lymphocyte
C;Keywords: immunoglobulin
                                                                                                                                                                                   collagen alpha chain - polychaete (Alvinella pompejana) (fragment)
C;Species: Alvinella pompejana
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 29-May-1998
C;Accession: S23376
R;Gaill, F; Wiedemann, H.; Mann, K.; Kuehn, K.; Timpl, R.; Engel, J.
J. Mol. Biol. 221, 209-223, 1991
A;Title: Molecular characterization of cuticle and interstitial collagens from worms
A;Reference number: S17581; MUID:92015209; PMID:1920405
A;Accession: S23376
A;Molecule type: protein
A;Residues: 1-14 <GAI>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              glycoprotein hormones alpha chain - hamster (fragment)
N;Alternate names: choriogonadotropin alpha chain; luteinizing hormone alpha C;Species: Cricetinae gen. sp. (hamster)
C;Date: 17-Jul-1994 #sequence_revision 17-Jul-1994 #text_change 07-May-1999
C;Accession: A61309
R;Glenn, S.D.; Nahm, H.S.; Greenwald, G.S.; Ward, D.N.
Endocrinology 111, 1263-1269, 1982
A;Title: Isolation and characterization of hamster luteinizing hormone.
A;Reference number: A61309; MUID:83003498; PMID:6889489
A;Accession: A61309
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-12 <GLE>
C;Superfamily: glycoprotein hormones alpha chain
C;Keywords: glycoprotein
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PH1585

Ig H chain V-D-J region (wild-type clone 9) - C; Species: Mus musculus (house mouse)
C; Date: 02-Jun-1994 #sequence_revision 02-Jun-
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Pred. No.
1; Mismatc
                                                                                                          Score 22; DB Pred. No. 2.9e 0; Mismatches
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Pred. No. 1.7e+02
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2.9e+02;
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sperm-activating peptide (Ser-3,10 speract) - sea C;Species: Hemicentrotus pulcherrimus C;Date: 03-Jun-1993 #sequence_revision 03-Jun-1993 C;Accession: C60787 R;Suzuki, N.; Kajiura, H.; Nomura, K.; Garbers, D. Comp. Biochem. Physiol. B 89, 687-693, 1988 A;Title: Some more speract derivatives associated A;Reference number: A60787; MUID:88242184; PMID:33 A;Accession: C60787
                                                                                                                                                                                          RESULT
C60787
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A;Accession: PH1458
A;Molecule type: mRNA
A;Residues: 1-12 <CAS>
A;Residues: 1-12 <CAS>
A;Experimental source: cytolytic T-lymphocyte, clone 332/1K
R;Casanova, J.L.; Cerottini, J.C.; Matthes, M.; Necker, A.;
J. Exp. Med. 176, 439-447, 1992
A;Title: H-2-restricted cytolytic T lymphocytes specific for A;Reference number: S26512; MUID: 92364546; PMID: 1380061
                                                                                                                                                    A;Cross-references: EMBL:X67993
A;Experimental source: cytolytic T-lymphocyte,
C;Superfamily: immunoglobulin homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 7

PH1458
T-cell receptor beta chain (clone 332/1K) - mouse (fragment)
В
                        Ş
                                                                                                                                      C; Keywords: receptor;
                                                                                                                                                                                                        A; Molecule type: mRNA
A; Residues: 1-12 < CA2>
                                                                                                                                                                                                                                                                                                                                                                                                                 R;Casanova, J.L.; Martinon, F.; Gournier, F. J. Exp. Med. 177, 811-820, 1993
A;Title: T cell receptor selection by and JA;Reference number: PH1430; MUID:93171821;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   片
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C;Species: Homo sapiens (man)
C;Date: 13-Jan-1995 #sequence_revision 18-Aug-2000 #text_change 18-Aug-2000
C;Accession: S43170
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$43170
kinesin light chain - human
                                                                                                                                                                                                                                             A;Status: preliminary
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A;Accession: S43170
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A; Residues: 1-12 < CHE>
                                                                                                                                                                                                                                                          A; Accession: S26543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;Species: Mus musculus (house mouse)
;Date: 10-Mar-1994 #sequence_revision 10-Mar-1994
;Accession: PH1458; S26543
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                                                                                   Score 20;
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Pred.
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                                                                   Mismatches
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No.
                                                                                                                                                                                                                                                                                                                                                                                                                    recognition of two; PMID:8436911
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                                                                                   DB 2; 1
6.3e+02;
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03-Jun-1993

#text_change

sea urchin (Hemicentrotus pulcherrimus)

ociated with eggs PMID:3378407

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urchins, Kurita, M.;

D.L.;

Yoshino, K.;

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A;Note: this peptide did not contain bromophenylalanine R;Yoshino, K.; Takao, T.; Suhara, M.; Kitai, T.; Hori, H.; Nomura, K.; Biochemistry 30, 6203-6209, 1991
A;Title: Identification of a novel amino acid, o-bromo-L-phenylalanine, A;Reference number: A39572; MUID:91283461; PMID:2059627
A;Accession: D39572
                                                                                  R;Yoshino, K.; Takao, T.; Suhara, M.; Kitai, T.; Hori, H.; Nomura, K.; Yamaguchi, Biochemistry 30, 6203-6209, 1991
A;Title: Identification of a novel amino acid, o-bromo-L-phenylalanine, in egg-ass A;Reference number: A39572; MUID:91283461; PMID:2059627
A;Accession: E39572
A;Molecule type: protein
A;Residues: 1-10 <YOS>
C;Superfamily: unassigned animal peptides
C;Keywords: bromine
F;2/Modified site: 2'-bromophenylalanine (Phe) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Accession: C60527; D39572
R;Yoshino, K.I.; Kajiura, H.; Nomura, K.; Takao, T.; Shimonishi, Y.; F Comp. Biochem. Physiol. B 94, 739-751, 1989
A;Title: A halogenated amino acid-containing sperm activating peptide otus nudus, Echinometra mathaei and Heterocentrotus mammillatus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C; Comment: This oligopeptide from at shows some, but not absolute, s C; Superfamily: unassigned animal p
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E39572
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C;Comment: This oligop
                                                                                                                                                                                                                                                                                           sperm-activating peptide TG-5 - sea urchin (Tripneustes gratilla)
N;Alternate names: speract homolog TG-5
C;Species: Tripneustes gratilla
C;Date: 10-Jul-1992 #sequence_revision 10-Jul-1992 #text_change 18-Aug-2000
C;Accession: E39572
C;Accession: E39572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: protein A; Residues: 1-10 < YO2>
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A; Accession: C60527
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Note: this peptide contained bromophenylalanine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alternate names: speract homolog TG-4;Species: Tripneustes gratilla;Species: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 18-Aug-2000;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 18-Aug-2000
 Query Match
Best Local S
Matches 3
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;Keywords: bromine
;2/Modified site: 2'-bromophenylalanine (Phe) (partial) #status
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h 38.0%;
Similarity 50.0%;
3; Conservative
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66.7%;
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   Score 19; DB Pred. No. 8.3e 1; Mismatches
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Pred. No.
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Pred. No.
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                      8.3e+02;
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3.3e+02;
2;
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                                               DB 2;
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                                                                                                                                                                                             triose-phosphate isomerase (EC 5.3.1.1) -
C;Species: Fusarium sporotrichioides
C;Date: 05-Aug-1994 #sequence_revision 06-
C;Accession: PN0165
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                                                                                                                              R;Fukaya, N.; Chow, L.P.; Sugiura, Y.; Tsugita, A.; Ueno, Y.; Tabuchi, K. submitted to JIPID, May 1994
A;Description: Two dimensional polyacrylamide gel electrophoresis of Fusarium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                               A; Reference number: PN0160
A; Accession: PN0165
A; Molecule type: protein
A; Residues: 1-10 < FUK>
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        A; Experimental source: strain M-1-1
C; Keywords: intramolecular oxidoreductase; isomerase
                                                                                                                                                                                                                                                                                  RESULT 13
PN0165
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M-1-1

06-Jan-1995

#text_change

sporotrich

fungus

(Fusarium sporotrichioides)

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N;Alternate names: speract homolog
C;Species: Strongylocentrotus nudus
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 18-Aug-2000
C;Accession: A60588
R;Yoshino, K.I.; Kajiura, H.; Nomura, K.; Takao, T.; Shimonishi, Y.; Kurita
Comp. Biochem. Physiol. B 94, 739-751, 1989
A;Title: A halogenated amino acid-containing sperm activating peptide and i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Yoshino, K.I.; Kajiura, H.; Nomura, K.; Takao, T.; Shimonishi, Y.; Kurita, M.; Yamag Comp. Biochem. Physiol. B 94, 739-751, 1989
A;Title: A halogenated amino acid-containing sperm activating peptide and its related otus, Echinometra mathaei and Heterocentrotus mammillatus.
A;Reference number: A60527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: protein
A; Residues: 1-10 < YOS>
A; Note: an identical peptide was isolated
C; Superfamily: unassigned animal peptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Echinometra mathaei
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993
C;Accession: D60589
                                                                                                                                  A; Molecule type: protein
A; Residues: 1-10 < YOS>
C; Superfamily: unassigned animal peptides
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A;Reference number: A60527
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Best Local :
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Best Local
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3; Conserv
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                                                                    Conservative
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50.0%;
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50.0%;
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Pred. No.
                                                                 Score 19; DB 2; pred. No. 8.3e+02;
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8.3e+02;
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                                                                                                      Length 10
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                                                                                                                                                                                                                                                                                                                                                                               (Strongylocentrotus nudus)
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                                                                                                                                                                                                                                                                                       Y.; Kurita,
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C;Species: Oryza sativa (ric
C;Date: 03-Feb-1994 #sequenc
C;Accession: PU0029
R;Tsugita, A.; Miyatake, N.
submitted to JIPID, April 19
A;Reference number: PS0208
                                                                            C;Accession: JS0318
R;Holman, G.M.; Cook, B.J.; Nachman, R.J.
Comp. Biochem. Physiol. C 88, 31-34, 1987
A;Title: Isolation, primary structure and A;Reference number: JS0317
A;Accession: JS0317
      C; Keywords: a F; 8/Modified
                                                                                                                                                                                                                                                                                                                                                                                                                       D-arabinose 1-dehydrogenase [NAD(P)] (EC 1.1.1.117) - yeast (Candida albicans) C;Species: Candida albicans
C;Date: 29-Jan-1998 #sequence_revision 06-Feb-1998 #text_change 03-Jun-2002
C;Accession: S72217
R;Kim, S:T:; Huh, W.K.; Kim, J.Y.; Hwang, S.W.; Kang, S.O.
Biochim. Biophys. Acta 1297, 1-8, 1996
A;Title: D-arabinose dehydrogenase and biosynthesis of erythroascorbic acid in A;Reference number: S72217; MUID:96439039; PMID:8841374
A;Accession: S72217
A;Molecule type: protein
A;Residues: 1-14 <KIM>C;Keywords: oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 14
PU0029
33K protein
A; Molecule type: protein
A; Residues: 1-8 < HOL>
C; Comment: Leucokinins, a family of cephalomyotropic peptides, stimulate
C; Keywords: amidated carboxyl end; cephalomyotropic peptide
F; 8/Modified site: amidated carboxyl end (Gly) #status experimental
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JS0318
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A;Molecule type: protein
A;Residues: 1-11 <TSU>
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                                                                                                                                                                            leucokinin VIII - Madeira cockroach
C;Species: Leucophaea maderae (Madeira cockroach)
C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990
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A;Note: this peptide was found both with both phenylalanine and bromoph R;Yoshino, K.; Takao, T.; Suhara, M.; Kitai, T.; Hori, H.; Nomura, K.; Biochemistry 30, 6203-6209, 1991
A;Title: Identification of a novel amino acid, o-bromo-L-phenylalanine, A;Reference number: A39572; MUID:91283461; PMID:2059627
A;Accession: B39572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R;Yoshino, K.I.; Kajiura, H.; Nomura, K.; Takao, T.; Shimonishi, Y.; F. Comp. Biochem. Physiol. B 94, 739-751, 1989
A;Title: A halogenated amino acid-containing sperm activating peptide otus nudus, Echinometra mathaei and Heterocentrotus mammillatus.
A;Reference number: A60527
A;Accession: G60527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sperm-activating peptide (Br-Phe-2, Asn-3 SAP-I) - N;Alternate names: speract homolog TG-2; TG-10 N;Contains: sperm-activating peptide (Asn-3 SAP-I) C;Species: Tripneustes gratilla C;Date: 17-Apr-1993 #sequence revision 17-Apr-1993 C;Date: 17-Apr-1993 #sequence revision 17-Apr-1993 C;Date: 17-Apr-1993 #sequence revision 17-Apr-1993 C;Date: 17-Apr-1993 C;Date: 1993 #sequence revision 1993 Ms #sequence revision 1993 C;Date: 1993 #sequence revision 1993 C;Date: 1993 Ms #sequence revision 1993 C;Date: 1993 Ms #sequence revision 1993 Ms #sequence r
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A; Residues: 1-9 < MON>
C; Comment: This peptide was obtained from of recipient rabbits, it induces spindle C; Superfamily: unassigned animal peptides
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A;Title: The delta sleep inducing peptide (DSIP). Comparative properties of A;Reference number: A01422; MUID:77185324; PMID:862769
A;Accession: A01422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         delta sleep-inducing peptide - rabbit
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 20-Jun-2000 #sequence_revision 20-Jun-2000
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Pred. No. 2.8e
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Nomura, K.; Yamaguchi,
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sperm-activating peptide (Asn-3, Ser-5 SAP-I) - Echinometra mathaei (type A)
C;Species: Echinometra mathaei
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 18-Aug-2000
C;Accession: F60589
R;Yoshino, K.I.; Kajiura, H.; Nomura, K.; Takao, T.; Shimonishi, Y.; Kurita, M.; Yamagn Comp. Biochem. Physiol. B 94, 739-751, 1989
A;Title: A halogenated amino acid-containing sperm activating peptide and its related potus nudus, Echinometra mathaei and Heterocentrotus mammillatus.
A;Reference number: A60527
A;Reference number: A60527
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A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337; PMID:1899102
A;Accession: PT0250
                                                                                                                                                                                                                          Ig heavy chain DJ region (clone C100-91) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change (C;Accession: PH1343
R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.;
J. Exp. Med. 176, 1577-1581, 1992
A;Title: Predominance of fetal type DJH joining in young childrer A;Reference number: PH1302; MUID:93094761; PMID:1460419
A;Accession: PH1343
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C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0250
C;Accession: PT0250
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PH1343
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A;Residues: 1-11 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin
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                                                                                                                                                                      A; Molecule type: DNA
A; Residues: 1-11 <WAS
C; Keywords: heterotes
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Best Local S
Matches 3
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Best Local S
Matches 3
                                                                                                                                                                                                                     Reference number: PH1302; MUID:93094761; PMID:1460419; Accession: PH1343
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Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                       Residues: 1-11 <WAS>
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100.0%; Pred. No. 1.5e+03;
cive 0; Mismatches 0;
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Pred. No. 1.3e+03;
1; Mismatches
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C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 24-Aug-1996 #sequence_revision 13-Mar-1997 #text_change 13-Mar-1997
C;Accession: S60354
R;Huang, D.Y.; Ichikawa, Y.
Biochim. Biophys. Acta 1243, 431-436, 1995
A;Title: Identification of essential lysyl and cysteinyl residues, and the A;Reference number: S60354; MUID:95244596; PMID:7727518
A;Accession: S60354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: protein
A; Residues: 1-11 < KAT>
A; Experimental source: neuroblastoma cell
C; Comment: The molecular mass is 13,900 au
C; Keywords: brain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kawasaki Igakkaishi 22, 245-259, 1996
A;Title: Analysis of proteins isolated
A;Reference number: PN0041
A;Accession: PN0044
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein kinase C inhibitor I - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 29-Oct-1997 #sequence_revision 29-Oct-1997
C;Accession: PN0044
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PN0044
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A;Molecule type: protein
A;Residues: 1-11 <HUA>
                                                                                                                                                                 R;Nakano, N.; Kikutani, H.; Nishimoto, H.; Kishimoto, T. J. Exp. Med. 173, 1091-1097, 1991
A;Title: T cell receptor V gene usage of islet beta cell-reactive T cells is A;Reference number: PT0209; MUID:91217621; PMID:1902501
                                                                                                                                                                                                                                   T-cell receptor beta chain V-J region (7-10-D.3) - C;Species: Mus musculus (house mouse) C;Date: 31-Dec-1991 #sequence_revision 31-Dec-1991 C;Accession: PT0218
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                                                                                                 A;Accession: PT0218
A;Molecule type: mRNA
A;Residues: 1-11 <NAK>
C;Keywords: T-cell receptor
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Best Local S
Matches 3
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nilarity 75.0%;
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Pred. No. 1.5e+03;
1; Mismatches 0;
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RESULT 26
A61575
A61575
Trimeresurus serine proteinase (EC 3.4.21.-) - Sakishima habu (fr. N;Alternate names: hemorrhagic toxin C;Species: Trimeresurus elegans (Sakishima habu) C;Date: 20-Oct-1994 #sequence_revision 06-Jan-1995 #text_change 0.7;Accession: A61575
R;Nikai, T.; Komori, Y.; Imai, K.; Sugihara, H.
Int. J. Biochem. 23, 73-78, 1991
A;Title: Isolation and characterization of hemorrhagic toxin from A;Reference number: A61575; MUID:91216327; PMID:2022298
A;Accession: A61575
A;Molecule type: protein
A;Residues: 1-11 <NIK>
C;Keywords: hydrolase; serine proteinase; venom
                                                                                                                                                                                                          C;Species: Mus musculus (house mouse)
C;Date: 13-Jan-1995 #sequence_revision 17-Apr-1998 #text_change 17-Mar-1999
C;Accession: S26544
R;Casanova, J.L.; Cerottini, J.C.; Matthes, M.; Necker, A.; Gournier, H.; Bay. Med. 176, 439-447, 1992
A;Title: H-2-restricted cytolytic T lymphocytes specific for HLA display T a;Reference number: S26512; MUID: 92364546; PMID:1380061
A;Recession: S26544
A;Accession: S26544
A;Accession: S26544
                                                                                   A; Molecule type: mRNA
A; Residues: 1-12 < CAS>
A; Cross-references: EMBL: X67994
A; Cross-references: eytolytic T-lymphocyte, clone Cw3/HLA1C8
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: T-cell receptor
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A; Title: Rearrangement and junctional-site s A; Reference number: A41946; MUID:92049316; F A; Accession: I41946
A; Status: preliminary; not compared with cor A; Status: preliminary; not compared with cor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C; Species: Mus musculus (house mouse)
C; Date: 03-Feb-1994 #sequence_revision
C; Accession: I41946
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                    36.0%;
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100.0%; Pred. No. 1.5e+03
live 0; Mismatches 0
Score 18; DB 2; L
Pred. No. 1.6e+03;
1; Mismatches 1;
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Pred. No. 1.5e+03
0; Mismatches 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequence analyses of T-cell receptor gamma PMID:1658619
                                                                                                                                                                                                                                                                                               M.; Necker, A.; Gournier, H.; Barra,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Schaefer, F.V.; Miller, K.S.; Klein,
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A;Reference number: A33098
A;Accession: B33098
A;Statue: The Protein Sequence
                                                                                                                                                           C;Species: Plasmodium falciparum
C;Date: 24-Aug-1990 #sequence_revision 24-Aug-1990 #text_change 09-Jun-2000
C;Accession: E33098
R;Nichols, J.H.; Hager, L.P.
submitted to the Protein Sequence Database, May 1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R; Tsugita, A.
submitted to JIPID,
A; Reference number:
                                                                         A; Molecule type: protein A; Residues: 1-14 < NIC>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ribulose-bisphosphate carboxylase activase I - rice (strain Nihonbare) (fragment) C;Species: Oryza sativa (rice) C;Species: Oryza sativa (rice) C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 02-Jul-1998
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PS0278
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A;Residues: 1-13 <NIY>
C;Superfamily: collagen alpha 1(V) chain; fibrillar collagen carboxyl-terminal homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 28
$48210
$collagen alpha 1(V) chain - bovine (fragment)
$c;Species: Bos primigenius taurus (cattle)
$C;Date: 15-Jul-1995 #sequence_revision 26-Jul-1996 #text_change 16-Feb-1997
$C;Accession: $48210
$C;Accession: $48210
$R;Niyibizi, CC; Eyre, D.R.
$R;Niyibizi, CC; Eyre, D.R.
                                                                                                             A; Status: preliminary
                                                                                                                                                                                                                                           214K exoantigen (version 2) - malaria parasite (Plasmodium falciparum) (fragments)
C;Species: Plasmodium falciparum
                                                                                                                                                                                                                                                                                                      RESULT 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Experimental source: leaf, chlorophyll
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: protein A; Residues: 1-14 <TSU>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C; Accession: PS0278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R;Niyibizi, C.; Eyre, D.R.
Eur. J. Biochem. 224, 943-950, 1994
A;Title: Structural characteristics of cross-linking sites
A;Reference number: S48210; MUID:95010086; PMID:7925418
A;Accession: S48210
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   Query Match
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   ilarity 100.0%; 1
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Score 18; DB 2; L;; Pred. No. 1.9e+03; 0; Mismatches 0;
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1.9e+03;
                                      Length 14;
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RESULT 32
PH1598
                                                           A;Status: pre______A;Molecule type: protein A;Residues: 1-8 <DUV> C;Keywords: amidated car
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A;Title: Predominance of fetal type DJH joining in young children with B precursor A;Reference number: PH1302; MUID:93094761; PMID:1460419
A;Accession: PH1347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R; Levinson, D.A.; Campos-Torres, J.; Leder, P. J. Exp. Med. 178, 317-329, 1993
A; Title: Molecular characterization of transgene-induced A; Reference number: PH1580; MUID:93301609; PMID:8315387
A; Accession: PH1598
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A; Residues: 1-14 < WAS>
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A; Residues: 1-14 <LEV>
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Best Local S
Matches 3
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Best Local S
Matches 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Species: Homo sapiens (man);Date: 30-Sep-1993 #text_change 07-May-1999;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999;Accession: PH1347
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Keywords: immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Experimental source: bone marrow
                                                           eywords: amidated carboxyl
/Modified site: amidated c
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3; Conserv
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ilarity 100.0%;
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34.0%; Score 17; DB 2; Lilarity 100.0%; Pred. No. 2.8e+05; Conservative 0; Mismatches 0;
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carboxyl end (Phe)
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Pred. No. 1.9e+03;
0; Mismatches 0;
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1.9e+03;
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                                                             #status experimental
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R;Pleau, J.M.; Dardenne, M.; Blouquit, Y.; Bach, J.F. J. Biol. Chem. 252, 8045-8047, 1977
A;Title: Structural study of circulating thymic factor: A;Reference number: A01523; MUID:78026571; PMID:914862
A;Accession: A01523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: protein
A; Residues: 'Z', 2-4, 'Z', 6-9 <BAC>
C; Comment: This peptide induces DNA synthesis in immature thymocytes, in a variety of immunoassays.
in a variety of immunoassays.
C; Comment: See PIR: A60957 (sheep) for discussion of another possible 1 C; Superfamily: thymic factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: protein
A; Residues: 1-9 < PLE>
R; Bach, J.F.; Dardenne, M.; Pleau, J.M.; Rosa, J.
Nature 266, 55-57, 1977
A; Title: Biochemical characterisation of a serum thymic factor.
A; Reference number: A60983; MUID: 77123829; PMID: 300146
A; Accession: A60983
                                                                                            A; Molecule type: protein
A; Residues: 1-9 < ERN>
C; Comment: This peptide induces DNA synthesis in immature thymocytes, but not peripher in a variety of immunoassays.
C; Comment: This peptide was isolated in two forms. One form contained the pyrrolidone r form (thymocyte growth peptide) contains a large, non-peptide blocking group with a C; Superfamily: thymic factor
C; Keywords: blocked amino end; pyroglutamic acid
F; 1/Modified site: pyrrolidone carboxylic acid (Glx) (in FTS) #status experimental
F; 1/Modified site: blocked amino end (Glx) (in thymocyte growth peptide) #status exper
                                                                                                                                                                                                                                                                                                                                    C;Accession: A60957
R;Ernstroem, U.; Gafvelin, G.; Rudja, J.M.
Biosci. Rep. 10, 403-412, 1990
A;Title: Purification of thymocyte growth peptide (TGP)
A;Reference number: A60957; MUID:91064427; PMID:2249004
A;Accession: A60957
                                                                                                                                                                                                                                                                                                                                                                                                                                                      thymocyte growth peptide - sheep N;Contains: FTS (facteur thymique serique) C;Species: Ovis orientalis aries, Ovis ammon aries C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 C;Accession: A60957
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     Query Match
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Matches 3
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Pred. No.
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       Mismatches
                                   No.
DB 2; L--
o. 2.8e+05;
0;
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2.8e+05
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#text_change 24-Nov-1999
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                                                       Length 9;
           Indels
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RESULT 37
A44787
callifMRFamide:
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C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 17-Mar-1999
C;Accession: B41978
R;Duve, H.; Johnsen, A.H.; Sewell, J.C.; Scott, A.G.; Orchard, I.; Rehfeld, J.F.; Thorpe Proc. Natl. Acad. Sci. U.S.A. 89, 2326-2330, 1992
A;Title: Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides (des. A;Reference number: A41978; MUID:92196111; PMID:1549595
A;Accession: B41978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C;Species: Calliphora vomitoria
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 17-Mar-1999
C;Accession: A44787
C;Accession: A44787
R;Duve, H.; Johnsen, A.H.; Sewell, J.C.; Scott, A.G.; Orchard, I.; Rehfeld, J.F.; Thorpe Proc. Natl. Acad. Sci. U.S.A. 89, 2326-2330, 1992
A;Title: Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides (desi A;Reference number: A41978; MUID:92196111; PMID:1549595
A;Accession: A44787
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-9 <DUV>
C;Keywords: amidated carboxyl end; neuropeptide
F;9/Modified site: amidated carboxyl end (Phe) #status experimental
                                                                                    A; Molecule type: protein
A; Residues: 1-9 < DUV >
C; Keywords: amidated carboxyl end; neuropeptide
F; 9/Modified site: amidated carboxyl end (Phe);
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C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 17-Mar-1999
C;Accession: A41978
R;Duve, H.; Johnsen, A.H.; Sewell, J.C.; Scott, A.G.; Orchard, I.; Rehfeld, J.F.; Thorpe Proc. Natl. Acad. Sci. U.S.A. 89, 2326-2330, 1992
A;Title: Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides (desi A;Reference number: A41978; MUID:92196111; PMID:1549595
A;Accession: A41978
A;Status: preliminary
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A41978
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A;Residues: 1-9 <DUV>
C;Keywords: amidated carboxyl end; neuropeptide
F;9/Modified site: amidated carboxyl end (Phe) #status experimental
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Matches 3
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;Species: Calliphora vomitoria
;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 17-Mar-1999
                                Query Match
Best Local
           Matches
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3; Conservative
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100.0%; Pr/
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100.0%; Pr/
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C. 2.8e+05; 0;
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A;Title: Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides A;Reference number: A41978; MUID:92196111; PMID:1549595
A;Accession: D41978
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A;Residues: 1-9 <DUV>
C;Keywords: amidated carboxyl end; neuropeptide
F;9/Modified site: amidated carboxyl end (Phe) ;
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C;Species: Calliphora vomitoria
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 17-Mar-1999
C;Accession: D41978
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A;Molecule type: protein
A;Residues: 1-9 <DUV>
C;Keywords: amidated carboxyl end; neuropeptide
F;9/Modified site: amidated carboxyl end (Phe) #status experimental
A; Molecule type: protein A; Residues: 1-9 < DUV >
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C41978
                                                                       A;Status: preliminary
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A; Reference number:
A; Accession: C41978
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A;Title: Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides (design), Reference number: A41978; MUID:92196111; PMID:1549595
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amidated carboxyl end; neuropeptide

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R;Duve, H.; Johnsen, A.H.; Sewell, J.C.; Scott, A.G.; Orchard, I.; Rehfeld, J.F.; Thorpe Proc. Natl. Acad. Sci. U.S.A. 89, 2326-2330, 1992
A;Title: Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides (desi A;Reference number: A41978; MUID:92196111; PMID:1549595
A;Accession: F41978
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A,Molecule type: protein
A,Residues: 1-9 <DUV>
C,Keywords: amidated carboxyl end; neuropeptide
F,9/Modified site: amidated carboxyl end (Phe) #status experimental
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A;Title: Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides (desi A;Reference number: A41978; MUID:92196111; PMID:1549595
A;Accession: G41978
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A; Residues: 1-9 < DUV>
C; Keywords: amidated c
F; 9/Modified site: ami
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C;Species: Calliphora vomitoria
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 17-Mar-1999
C;Accession: G41978
                                                                                   sperm-activating peptide (Ser-5 speract) - sea urchin (Anthocidaris crassis)
C;Species: Anthocidaris crassispina
C;Date: 03-Jun-1993 #sequence_revision 03-Jun-1993 #text_change 18-Aug-2000
C;Accession: F60787
R;Suzuki, N.; Kajiura, H.; Nomura, K.; Garbers, D.L.; Yoshir Comp. Biochem. Physiol. B 89, 687-693, 1988
A;Title: Some more speract derivatives associated with eggs A;Reference number: A60787; MUID:88242184; PMID:3378407
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site: amidated carboxyl end (Phe) #status experimental
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ilarity 100.0%;
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100.0%; Pred. No. 2.8e+05;
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Pred. No. 2.8e+05;
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                                                                    K.; Garbers, D.L.; Yoshino, K.;
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                                                                       Kurita, M.; Tanaka,
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Search completed: August 30, Job time: 3.70608 secs

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R;Suzuki, N.; Kajiura, H.; Nomura, K.; Garbers, D.L.; Yoshino, Comp. Biochem. Physiol. B 89, 687-693, 1988
A;Title: Some more speract derivatives associated with eggs of A;Reference number: A60787; MUID:88242184; PMID:3378407
A;Accession: E60788
A;Molecule type: protein
A;Residues: 1-10 <SUZ>
C;Comment: This oligopeptide from egg jelly is one of several at shows some, but not absolute, species restriction.
C;Superfamily: unassigned animal peptides
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A;Molecule type: protein
A;Residues: 1-10 <SUZ>
C;Comment: This oligopeptide from egg jelly is one of several from at shows some, but not absolute, species restriction.
C;Superfamily: unassigned animal peptides
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                                                                                                                                                                                                                                                                                                                                                      sperm-activating peptide (Ala-3, Gly-5 speract) -
                                                                                                                                                                                                                                                                                               ;Species: Pseudocentrotus depressus;Date: 30-Sep-1993 #text_change 18-Aug-2000;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 18-Aug-2000;Accession: E60788
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Pred. No. 2.1e+03;
1; Mismatches 2
                                          Score 17; DB 2;
Pred. No. 2.1e+03
1; Mismatches
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Maximum Match 100%
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Perfect score:
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     protein search, using sw
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

9: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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/cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US09_NEW_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US09_NEW_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
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9 US-09-846-350-1

9 US-09-846-342-1

16 US-10-356-257-161

19 US-09-845-725-1

10 US-09-845-729-1

11 US-10-363-791-103

12 US-10-363-791-103

13 US-10-285-394-75

14 US-10-182-252A-872

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US-10-788-016-2
US-10-788-016-9
US-10-014-340-347
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Sequence 85, Appli
Sequence 2, Appli
Sequence 9, Appli
Sequence 147, App
Sequence 1, Appli
Sequence 103, App
Sequence 263, App
Sequence 75, Appl
Sequence 872, Appl
Sequence 10856, A
Sequence 10911, A
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equence 3	equence 30	quence as	equence 88	equence 88	equence 87	equence 87	equence 28	equence 28:	equence 25	equence 86	equence 31	equence 269	equence 268	equence 26	equence 8,	equence 7,	equence 6,	equence 239	equence 12	equence 12	equence 12	equence 12:	equence 26	equence 26	equence 26	quence 26,	e 109	equence 108

ALIGNMENTS

RESULT 1

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; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-447-161-85
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US-10-788-016-2
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TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis
FILE REFERENCE: HO-P02484US1
CURRENT APPLICATION NUMBER: US/10/447,161
CURRENT FILING DATE: 2003-05-28
PRIOR APPLICATION NUMBER: 60/383,530
PRIOR FILING DATE: 2002-05-28
NUMBER OF SEQ ID NOS: 148
SOFTWARE: Patentin version 3.1
SEQ ID NO 85
LENGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 85, Application US/10447161
Publication No. US20040023314A1
GENERAL INFORMATION:
Sequence 2, Application US/10788016
Publication No. US20040141992A1
GENERAL INFORMATION:
APPLICANT: ITOH, Kyogo
TITLE OF INVENTION: Desensitizers
                                                                                                                                                                                                                                                                               Query Match
Best Local (
                                                                                                                                                                                                                                                           Matches
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TYPE: PRT
ORGANISM: Artificial Sequence
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RESULT 4
US-10-014-340-347
US-10-014-340-347
; Sequence 347, Application US/10014340
; Publication NO. US20030064411A1
; GENERAL INFORMATION:
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CURRENT APPLICATION NUMBER: US/10/788,016

CURRENT FILING DATE: 2004-02-26

PRIOR APPLICATION NUMBER: PCT/JP02/08641

PRIOR FILING DATE: 2002-08-29

PRIOR FILING DATE: 2001-08-29

NUMBER OF SEQ ID NOS: 9

SOFTWARE: PatentIn version 3.2

SEQ ID NO 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE: 3190-049

CURRENT APPLICATION NUMBER: US/10/788,016

CURRENT FILING DATE: 2004-02-26

PRIOR APPLICATION NUMBER: PCT/JP02/08641

PRIOR FILING DATE: 2002-08-28

PRIOR APPLICATION NUMBER: JP P2001-260046

PRIOR PRIOR PILING DATE: 2001-08-29

NUMBER OF SEQ ID NOS: 9

NUMBER OF SEQ ID NOS: 9
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Best Local Similarity
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Publication No. US20040141992A1
GENERAL INFORMATION:
APPLICANT: ITOH, Kyogo
TITLE OF INVENTION: Desensitizers
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APPLICANT: Herath, et al TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and Uses Therefor, Including TITLE OF INVENTION: Diagnosis and Treatment of Alzheimer's Disease FILE REFERENCE: 9195-078 CURRENT APPLICATION NUMBER: US/10/014,340 CURRENT FILING DATE: 2001-12-10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn version 3.2
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ORGANISM: Artificial
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Pred. No. 1.2e+06;
1; Mismatches (
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; Sequence 1, Application US/09846342; Patent No. US20020160422A1; GENERAL INFORMATION:
APPLICANT: Jackowski, George
TITLE OF INVENTION: BIOPOLYMER MARKER INDICATIVE OF; TITLE OF INVENTION: OF 1077 DALTONS
FILE REFERENCE: 2132.026; CURRENT APPLICATION NUMBER: US/09/846,342; CURRENT FILING DATE: 2001-04-30; NUMBER OF SEQ ID NOS: 1
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
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                                                                                                                             ; ORGANISM: Homo sapiens US-09-846-342-1
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-014-340-347
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Patent No. US20020161188A1
GENERAL INFORMATION:
APPLICANT: Jackowski, George
TITLE OF INVENTION: Biopolymer Marker Indicative of Disease State Having a Molecular
TITLE OF INVENTION: of 1020 Daltons
FILE REFERENCE: 2132.025
CURRENT APPLICATION NUMBER: US/09/846,350
CURRENT FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 1
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 10
                                                               Matches
                                                                                              Query Match
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 347
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Best Local Similarity 87.5%;
Matches 7; Conservative
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ORGANISM: Homo sapiens
                                                                                                                                                                         LENGTH: 11
                                                                             Local Similarity
                               1 DFMIQGG 7
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DFLAEGG
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                                                               Conservative
                                                                             54.0%;
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                                                             2; Mismatches
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                                                                           Score 27; Depred No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 27; DB 9;
Pred. No. 2e+02;
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Pred. No. 1.7;
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                                                                            DB 9;
2.2e+02;
                                                                                          Length 11;
                                                                                                                                                                                                                                                                                                        OF DISEASE
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Sequence 1, Application US/09845729
; Publication No. US20020160528A1
; GENERAL INFORMATION:
; APPLICANT: Jackowski, George
; TITLE OF INVENTION: BIOPOLYMER MARKER INDICATIVE OF
; TITLE OF INVENTION: OF 1350 DALTONS
; FILE REFERENCE: 2132.031
; CURRENT APPLICATION NUMBER: US/09/845,729
; CURRENT FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.1
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US-09-845-725-1
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; OTHER INFORMATION: sequence is synthesized US-10-356-257-161
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US-09-845-729-1
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Best Local Similarity 57.1
Thes 4; Conservative
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CURRENT APPLICATION NUMBER: US/10/356,257
CURRENT FILING DATE: 2003-01-30
PRIOR APPLICATION NUMBER: US 60/355,420
PRIOR FILING DATE: 2002-02-06
NUMBER OF SEQ ID NOS: 355
SEQ ID NO 161
LENGTH: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 161, Applica Publication No. US200 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/845,725
CURRENT FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 1
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1, Application US/09845725
Patent No. US20020161185A1
GENERAL INFORMATION:
APPLICANT: Jackowski, George
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: LAZARUS, ROBERT A.
APPLICANT: MAUN, HENRY R.
TITLE OF INVENTION: FVIIa Antagonists
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: BIOPOLYMER MARKER INDICATIVE OF DISEASE STATE HAVING A MOLECULAR TITLE OF INVENTION: OF 1206 DALTONS FILE REFERENCE: 2132.028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 11
TYPE: PRT
ORGANISM: Artificial sequence
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57.1%;
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66.7%;
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Pred. No. 2.2e+02;
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Pred. No. 2
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                                                                                                                                  OF DISEASE STATE HAVING A MOLECULAR
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        ORGANISM: homo sapien
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APPLICANT: Faye, March Bhikhu
APPLICANT: Parekh, Rajesh Bhikhu
APPLICANT: Waterfield, Michael Derek
TITLE OF INVENTION: Proteins, Genes, and Their Use for
TITLE OF INVENTION: Diagnosis and Treatment of Breast Cancer
FILE REFERENCE: 2543-1-024
CURRENT APPLICATION NUMBER: US/09/988,493
CURRENT FILING DATE: 2002-05-21
PRIOR APPLICATION NUMBER: PCT/GB01/01219
PRIOR FILING DATE: 2001-03-20
PRIOR FILING DATE: 2001-03-20
PRIOR APPLICATION NUMBER: GB 0006695.1
PRIOR APPLICATION NUMBER: GB 0007265.2
PRIOR FILING DATE: 2000-03-20
PRIOR FILING DATE: 2000-02-24
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US-10-363-791-103
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US-10-363-791-103
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US-09-988-493-263
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Publication No. US20040029197A1
GENERAL INFORMATION:
APPLICANT: TAKIMOTO, Masato
APPLICANT: KUZUMAKI, No. US20040029197A1oru
APPLICANT: SATO, No. US20040029197A1iyuki
APPLICANT: SAHARA, Hiroeki
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 103
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Best Local (
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Best Local Similarity 55.6%;
Matches 5; Conservative
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NUMBER OF SEQ ID NOS: 308
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 263
LENGTH: 14
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TITLE OF INVENTION: A novel human cancer/testis-associated gene thereof
FILE REFERENCE: 4439-4006
CURRENT APPLICATION NUMBER: US/10/363,791
CURRENT FILING DATE: 2003-03-07
PRIOR APPLICATION NUMBER: JP 2000-274218
PRIOR FILING DATE: 2000-09-08
                                                                                                                                                                                                                                                                                                                                  APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri
APPLICANT: O'Hare, Michael John
APPLICANT: Page, Martin John
APPLICANT: Parekh, Rajesh Bhikhu
APPLICANT: Waterfield, Michael Derek
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c. US20030064419A1
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57.1%;
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Pred. No.
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Pred. No. 1.2e+06;
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2.6e+02;
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US-09-988-493-263

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PRIOR APPLICATION NUMBER: 2003-04-10
PRIOR FILING DATE: 2003-04-10
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: EP 00610017.6
PRIOR FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: US 60/179,333
PRIOR FILING DATE: 2000-01-31
NUMBER OF SEQ ID NOS: 1388
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 872
I.ENCORPT
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US-10-285-394-75
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Best Local
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Best Local Similarity
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                                                                                                                                                                                                           TITLE OF INVENTION: HIV PEPTIDE AND NUCLEIC ACIDS ENCODING TITLE OF INVENTION: CONTROL OF HIV INFECTIONS FILE REFERENCE: 030307/0205
CURRENT APPLICATION NUMBER: US/10/182,252A
CURRENT FILING DATE: 2003-04-10
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SOFTWARE: Patentin Ver. 2.1
EQ ID NO 75
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CURRENT APPLICATION NUMBER: US/10/285,394
CURRENT FILING DATE: 2003-02-07
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                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: FOMSGAARD, ANDERS
APPLICANT: BRUNAK, SOREN
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PLICANT: HOLT, GORDON DUANE
PLICANT: STIGER, THOMAS R.
TILE OF INVENTION: BIOMARKERS OF LIVER RESPONSE
                                     ENGTH:
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                                                                                                                                                                                                                                                                                                                                                        BUUS, SOREN
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                                                                                                                                                                                                                                                                                                                     LAUEMOLLER, SANNE LISE
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o. US20040072162A1
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44.4%;
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Pred. No.
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RESULT 15 US-10-057-475B-10911

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                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/200,999
PRIOR FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: US 60/202,084
PRIOR FILING DATE: 2000-05-04
PRIOR APPLICATION NUMBER: US 60/206,201
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: US 60/218,950
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: US 60/222,903
PRIOR APPLICATION NUMBER: US 60/222,903
PRIOR FILING DATE: 2000-08-03
                                                                                  Matches
                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                    SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 10856
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Best Local Similarity 71.4%;
Matches 5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 60/186,126
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: US 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: US 60/200,545
PRIOR FILING DATE: 2000-04-27
                                                                                                                                                                                                                                                                                                                                           Remaining Prior Application data removed NUMBER OF SEQ ID NOS: 10979
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TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
TITLE OF INVENTION: Hematological Malignancies
FILE REFERENCE: 014058-014402US
                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
                                                                                                                                                                                                                 FEATURE:
                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 60/200,303
FILING DATE: 2000-04-28
APPLICATION NUMBER: US 60/200,779
FILING DATE: 2000-04-28
                                         4 IQGGDF 9
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Clapper, Jonathan
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Carter, Lauren
McNeill, Patricia Dianne
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                                                                                Conservative
                                                                                                      50.0%;
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                                                                                                      Score 25; DB 15;
Pred. No. 1.2e+06;
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Pred. No. 1.2e+06;
                                                                                  Mismatches
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                                                                                                                                                                                                                                                                                                      US-10-154-884B-10856
                                                                     Sequence 10856, Application US/10154884B
Publication No. US20040005561A1

GENERAL INFORMATION:
APPLICANT: Gaiger, Alexander
APPLICANT: Algate, Paul A.
APPLICANT: Mannion, Jane
APPLICANT: Retter, Marc W.
APPLICANT: Corixa Corporation
APPLICANT: Corixa Corporations and Methods for the Detection, Diagnosis and Therapy
TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
TITLE OF INVENTION: Hematological Malignancies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Remaining Prior Application data removed NUMBER OF SEQ ID NOS: 10979
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 10911
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Best Local
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APPLICANT: Carter, Lauren
APPLICANT: McNeill, Patricia Dianne
APPLICANT: McNeill, Patricia Dianne
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
TITLE OF INVENTION: Hematological Malignancies
FILE REFERENCE: 014058-014402US
CURRENT APPLICATION NUMBER: 2002-01-22
CURRENT FILING DATE: 2002-01-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/186,126
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: US 60/190,479
PRIOR FILING DATE: 2000-03-17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Artificial Sequence
URRENT APPLICATION NUMBER: US/10/154,884B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 60/200,303
FILING DATE: 2000-04-28
APPLICATION NUMBER: US 60/200,779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 60/200,545 FILING DATE: 2000-04-27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 60/218,950
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CATION NUMBER: US 60/202,084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATION NUMBER: US 60/206,201
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Clapper, Jonathan David
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Pred. No.
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60/186,126

PRIOR PRIOR

APPLICATION NUMBER: US FILING DATE: 2000-05-22

APPLICATION NUMBER: US 60/218,950 FILING DATE: 2000-07-14

60/222,903

FILING DATE: 2000-05-01
APPLICATION NUMBER: US
FILING DATE: 2000-05-04

US 60/202,084

60/206,201

APPLICATION NUMBER: US 60/200,779 FILING DATE: 2000-04-28

APPLICATION NUMBER: US 60/200,999

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US-10-154-884B-10911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Fast
                                                                                                                                                                                                                                                                                                                                                                              Sequence 10911, Application US/10154884B Publication No. US20040005561A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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Best Local (
PRIOR APPLICATION NUMBER: US 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: US 60/200,545
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: US 60/200,303
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
                                                                                                                   CURRENT APPLICATION NUMBER: US/10/154,884B
CURRENT FILING DATE: 2002-05-23
PRIOR APPLICATION NUMBER: US 60/186,126
PRIOR FILING DATE: 2000-03-01
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                                                                                                                                                                                                  TITLE OF INVENTION: Compositions and Methods for the TITLE OF INVENTION: Hematological Malignancies FILE REFERENCE: 014058-013521US
                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 2000-05-22
APPLICATION NUMBER: US 60/218,950
FILING DATE: 2000-07-14
APPLICATION NUMBER: US 60/222,903
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APPLICATION NUMBER: US 60/200,303
FILING DATE: 2000-04-28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2000-04-28
APPLICATION NUMBER: US 60/200,999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 2000-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 60/200,779
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LING DATE: 2000-05-01
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Retter, Marc W.
Corixa Corporation
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: 2000-03-17
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Pred. No. 1
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                                                                                                                                                                                                                                           Detection,
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APPLICANT: Kopin, Alan S.

APPLICANT: Kopin, Alan S.

TITLE OF INVENTION: Assays for Identifying Receptors Having

FITLE OF INVENTION: Alterations in Signaling

FILE REFERENCE: 00398/512002

CURRENT APPLICATION NUMBER: US/09/966,871

CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: US 60/236,302

PRIOR FILING DATE: 2000-09-28

PRIOR FILING DATE: 2000-09-28

PRIOR APPLICATION NUMBER: US 60/288,644

PRIOR FILING DATE: 2001-05-03

NUMBER OF SEQ ID NOS: 87

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 26

LENGTH: 12
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; Sequence 26, Application US/10458860
; Publication No. US20040049800A1
; GENERAL INFORMATION:
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US-09-966-871-26
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
Matches 4
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Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 11290
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 10911
LENGTH: 9
SEQ ID NO 26
LENGTH: 12
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Best Local
                                       CURRENT APPLICATION NUMBER: US/10/458,860 CURRENT FILING DATE: 2003-06-11 PRIOR APPLICATION NUMBER: US 60/388,450 PRIOR FILING DATE: 2002-06-13 NUMBER OF SEQ ID NOS: 87 SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                     APPLICANT: Kopin, Alan S.
APPLICANT: Beinborn, Martin
TITLE OF INVENTION: Rapid Methods For Assessing Therapeutic
TITLE OF INVENTION: Activity Using Animals Expressing Constitutively Active
TITLE OF INVENTION: Protein-Coupled Receptors
FILE REFERENCE: 00398/517002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence FEATURE:
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1; Mismatches
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Pred. No.
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1;
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APPLICANT: Kopin, Alan S.

APPLICANT: Beinborn, Martin

TITLE OF INVENTION: Dose Response-Based Methods For

TITLE OF INVENTION: Identifying Receptors Having Alter

FILE REFERENCE: 00398/515002

CURRENT APPLICATION NUMBER: US/10/139,084

CURRENT FILING DATE: 2002-12-23

PRIOR APPLICATION NUMBER: US 60/288,647

PRIOR FILING DATE: 2001-05-03

NUMBER OF SEQ ID NOS: 74

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 26
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US-10-139-084-26
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                                                                                                                 ; ORGANISM: Homo sapiens 
US-10-139-084-26
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                                               Query Match
Best Local S
Matches 4
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Best Local Similarity 66.,
Thes 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                              Sequence 26, Application US/10139084
Publication No. US20030087313A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Kopin, A
APPLICANT: Beinbor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Beinborn, Martin
TITLE OF INVENTION: Constitutively Active, Hypersensitive,
TITLE OF INVENTION: and No. US20020147170Alfunctional Receptors as No. US20020147170.
FILE REFERENCE: 00398/510002
CURRENT APPLICATION NUMBER: US/10/039,645
CURRENT FILING DATE: 2001-10-25
PRIOR APPLICATION NUMBER: US 60/243,550
PRIOR FILING DATE: 2000-10-26
NUMBER OF SEQ ID NOS: 87
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                                                                                                                                                               ENGTH:
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nes 4; Conserv
2 FMIQGG 7
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No. US20020147170A1
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66.7%;
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                                                 Score 24; DB 14;
Pred. No. 8.3e+02
1; Mismatches
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Pred. No. 8.3e+02;
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Pred. No.
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                                                                             Length 12;
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US-10-469-304-122

RESULT 22

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US-10-469-304-123
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US-10-469-304-124
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PRIOR FILING DATE: 2001-10-15
NUMBER OF SEQ ID NOS: 147
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 122
LENGTH: 13
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Publication No. US20040091974A1
GENERAL INFORMATION:
APPLICANT: KIRIN BEER KABUSHIKI KAISHA
TITLE OF INVENTION: Anti HLA-DR antibody
FILE REFERENCE: PH-1646-PCT
CURRENT APPLICATION NUMBER: US/10/469,304
CURRENT FILING DATE: 2003-08-29
Sequence 124, Application US/10469304
Publication No. US20040091974A1
GENERAL INFORMATION:
APPLICANT: KIRIN BEER KABUSHIKI KAISHA
TITLE OF INVENTION: Anti HLA-DR antibody
FILE REFERENCE: PH-1646-PCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 123, Application US/10469304
Publication No. US20040091974A1
GENERAL INFORMATION:
APPLICANT: KIRIN BEER KABUSHIKI KAISHA
TITLE OF INVENTION: Anti HLA-DR antibody
FILE REFERENCE: PH-1646-PCT
                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 123
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Best Local
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Best Local :
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CURRENT FILING DATE: 2003-08-29
PRIOR APPLICATION NUMBER: JP2001/317054
PRIOR FILING DATE: 2001-10-15
NUMBER OF SEQ ID NOS: 147
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o. US20040091974A1
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57.1%;
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Pred. No.
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Pred. No. 9.1e+02;
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GENERAL INFORMATION:
APPLICANT: AMACHER, DAVID E.
APPLICANT: FASULO, LISA M.
APPLICANT: HERATH, HERATH MUDIYANSELAGE ATHULA CHANDRASIRI
APPLICANT: HOLT, GORDON DUANE
APPLICANT: STIGER, THOMAS R.
TITLE OF INVENTION: BIOMARKERS OF LIVER RESPONSE
FILE REFERENCE: POA-003.01
CURRENT APPLICATION NUMBER: US/10/285,394
CURRENT FILING DATE: 2003-02-07
PRIOR APPLICATION NUMBER: 60/335,964
PRIOR FILING DATE: 2001-10-31
NUMBER OF SEQ ID NOS: 412
SOFTWARE: PATENTIN Ver. 2.1

RESULT 26
US-10-285-394-239
; Sequence 239, App
; Publication No.

Application US/10285394 5. US20030228583A1

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APPLICANT: KIRIN BEER KABUSHIKI KAISHA
TITLE OF INVENTION: Anti HLA-DR antibody
FILE REFERENCE: PH-1646-PCT
CURRENT APPLICATION NUMBER: US/10/469,304
CURRENT FILING DATE: 2003-08-29
PRIOR APPLICATION NUMBER: JP2001/317054
PRIOR FILING DATE: 2001-10-15
NUMBER OF SEQ ID NOS: 147
SOFTWARE: PatentIn Ver. 2.1
SOFTWARE: PatentIn Ver. 2.1
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US-10-469-304-125
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                                                                                                                                 , OTHER INFORMATION: Description of Artificial Sequence:peptide US-10-469-304-125
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 125, Applic Publication No. US20 GENERAL INFORMATION:
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Best Local Similarity
                                                                Matches
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CURRENT FILING DATE: 2003-08-29
PRIOR APPLICATION NUMBER: JP2001/317054
PRIOR FILING DATE: 2001-10-15
NUMBER OF SEQ ID NOS: 147
SOFTWARE: Patentin Ver. 2.1
                                                                                                Query Match
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1 LIQNGDW 7
                                                                4; Conservative
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DE US20040091974A1
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57.1%;
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                                                                                 Score 24; DB 16;
Pred. No. 9.1e+02;
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Pred. No. 9.1e+02;
                                                                   Mismatches
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PRIOR APPLICATION NUMBER: EP 01102574.0
PRIOR FILING DATE: 2001-02-06
PRIOR FILING DATE: 2001-02-19
PRIOR FILING DATE: 2001-02-19
PRIOR APPLICATION NUMBER: PCT/EP02/01175
PRIOR FILING DATE: 2002-02-05
NUMBER OF SEQ ID NOS: 47
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 6
LENGTH: 13
TYPE: PRT
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Best Local Similarity
Matches 3; Conserva
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-285-394-239
FILE REFERENCE: MER-111
CURRENT APPLICATION NUMBER: US/10/467,113
CURRENT FILING DATE: 2003-08-05
PRIOR APPLICATION NUMBER: EP 01102574.0
PRIOR FILING DATE: 2001-02-06
PRIOR APPLICATION NUMBER: EP 01103954.2
PRIOR FILING DATE: 2001-02-19
PRIOR APPLICATION NUMBER: PCT/EP02/01175
PRIOR APPLICATION NUMBER: PCT/EP02/01175
PRIOR FILING DATE: 2002-02-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: MHC class II binding epitope US-10-467-113-6
                                                                                                                                                                                                                                                                                                                                                                             US-10-467-113-7
                                                                                                                                                                                                                                                                                                             Sequence 7, Application US/10467113 Publication No. US20040063634A1 GENERAL INFORMATION:
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Best Local Similarity
Matches 5; Conserv
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Publication No. US20040063634A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: MODIFIED KERATINOCYTE GROWTH FACTOR TITLE OF INVENTION: (KGF) WITH REDUCED IMMUNOGENCITY FILE REFERENCE: MER-111
CURRENT APPLICATION NUMBER: US/10/467,113
CURRENT FILING DATE: 2003-08-05
PRIOR APPLICATION
                                                                                                                                                                              APPLICANT: Carter, Graham
APPLICANT: Jones, Tim
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
TITLE OF INVENTION: MODIFIED KERATINOCYTE GROWTH FACTOR
TITLE OF INVENTION: (KGF) WITH REDUCED IMMUNOGENCITY
                                                                                                                                                                                                                                                                      APPLICANT: Carr, APPLICANT: Carte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Carr, Francis J.
APPLICANT: Carter, Graham
APPLICANT: Jones, Tim
APPLICANT: Williams, Steph
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nilarity 42.9%;
Conservative
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62.5%;
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Pred. No. 1.
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PRIOR APPLICATION NUMBER: EP 01102574.0
PRIOR FILING DATE: 2001-02-06
PRIOR APPLICATION NUMBER: EP 01102574.0
PRIOR APPLICATION NUMBER: EP 01103954.2
PRIOR FILING DATE: 2001-02-19
PRIOR APPLICATION NUMBER: PCT/EP02/01175
PRIOR FILING DATE: 2002-02-05
NUMBER OF SEQ ID NOS: 47
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
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US-10-468-370-267
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LENGTH: 13
TYPE: PRT
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Best Local Similarity
Matches 5; Conserv
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APPLICANT:
APPLICANT:
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APPLICANT: Carter, Graham
APPLICANT: Jones, Tim
APPLICANT: Williams, Stephen
TITLE OF INVENTION: MODIFIED KERATINOCYTE GROWTH FACTOR
TITLE OF INVENTION: (KGF) WITH REDUCED IMMUNOGENCITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 47
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                    APPLICANT: Gillies, Stephen APPLICANT: Carr, Francis J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: MER-111
CURRENT APPLICATION NUMBER: US/10/467,113
CURRENT FILING DATE: 2003-08-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
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Hamilton, Anita
Williams, Stephen
Hanlon, Marian
Watkins, John
Baker, Matthew
Way, Jeffrey
                                                                                                Carr, Francis J.
Jones, Tim
Carter, Graham
                                                                                                                                                                                    Application US/10468370
DS20040082039A1
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62.5%;
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62.5%;
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Pred. No. 1.1e
2; Mismatches
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Pred. No. 1.1e+03;
2; Mismatches 0;
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APPLICANT: WAY, Jeffrey
ITITLE OF INVENTION: ARTIFICIAL PROTEINS WITH REDUCED
TITLE OF INVENTION: IMMUNOGENICITY
FILE REFERENCE: MER-118
CURRENT APPLICATION NUMBER: US/10/468,370
CURRENT FILING DATE: 2003-08-19
PRIOR APPLICATION NUMBER: EP 01103955.9
PRIOR FILING DATE: 2001-02-19
PRIOR APPLICATION NUMBER: EP 01108291.4
PRIOR APPLICATION NUMBER: EP 01108291.4
PRIOR FILING DATE: 2001-04-05
PRIOR FILING DATE: 2001-04-05
PRIOR FILING DATE: 2002-02-18
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Best Local Similarity
Matches 5; Conserva
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                                                                                                                 ; FEATURE:
; CTHER INFORMATION: MHC class II binding epitope
US-10-468-370-268
                                                                                                                                                                                                                           SOFTWARE: Fa
                                      Matches
                                                                          Query Match
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NUMBER OF SEQ ID NOS: 689
SOFTWARE: FastSEQ for Windows Version 4.0
EQ ID NO 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: EP 01103955.9
PRIOR FILING DATE: 2001-02-19
PRIOR APPLICATION NUMBER: EP 01108291.4
PRIOR FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: PCT/EP02/01690
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CURRENT APPLICATION NUMBER: US/10/468,370
CURRENT FILING DATE: 2003-08-19
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SOFTWARE: FastSEQ for Windows Version 4.0
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                                                                                                                                                                    TYPE: PRT ORGANISM: Artificial Sequence
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                                     Local Similarity hes 5; Conserv
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    1 DFMIQGGD 8
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Williams, Stephen
Hanlon, Marian
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Carter, Graham
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                                                          62.5%;
                                                          Score 23.5; DB 16; Length 13; Pred. No. 1.1e+03;
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Pred. No. 1.
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RESULT 32
US-10-468-370-269
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CURRENT FILING DATE: 2003-08-19
PRIOR APPLICATION NUMBER: EP 01103955.9
PRIOR FILING DATE: 2001-02-19
PRIOR APPLICATION NUMBER: EP 01108291.4
PRIOR FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: PCT/EP02/01690
PRIOR FILING DATE: 2002-02-18
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Matches
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                                                                                                                       SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 31
                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
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                                                                                                                                                                             PRIOR APPLICATION NUMBER: 60/429,278
PRIOR FILING DATE: 2002-11-25
PRIOR APPLICATION NUMBER: 60/392,133
PRIOR FILING DATE: 2002-06-28
PRIOR APPLICATION NUMBER: 60/354,678
PRIOR APPLICATION NUMBER: 60/354,678
PRIOR FILING DATE: 2002-02-06
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CURRENT APPLICATION NUMBER: US/10/359,363A
CURRENT FILING DATE: 2003-02-05
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APPLICANT: Anchin, Jerry M.
TITLE OF INVENTION: ANTI-INFARCTION MOLECULES
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                                           ORGANISM: Artificial Sequence FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:/No. US20030228371Ale
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Watkins, John
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Williams, Stephen
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p. US20040082039A1
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llarity 62.5%;
Conservative
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Pred. No. 1
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                                                             Query Match
Best Local S
Matches 5
                                                                                                                                                                                        TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and Uses Therefor, TITLE OF INVENTION: Diagnosis and Treatment of Alzheimer's Disease FILE REFERENCE: 9195-078
CURRENT APPLICATION NUMBER: US/10/014,340
CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 823
SOFTWARE: PatentIn version 3.0
SEQ ID NO 253
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Best Local
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Publication No
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE: 2543-1-030
CURRENT APPLICATION NUMBER: US/10/601,837
CURRENT FILING DATE: 2003-06-23
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APPLICANT: Kelly, Michael
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                                                                                                                                           TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PPLICANT: Kennedy, Sandra J
PPLICANT: Moyses, Christopher
TITLE OF INVENTION: Proteins, Genes and Their Use for Diagnosis and Treatment of
TITLE OF INVENTION: Response
                                                                                                                                                                               ENGTH:
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                                                             Score 23; DB 12; Length 9; Pred. No. 1.2e+06; o; Mismatches 2; Indels
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Pred. No. 1.2e+06;
0; Mismatches 2; Indels
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Pred. No. 1.2e+06;
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; OTHER INFORMATION: Description of Artificial Sequence: HIV peptide
US-10-182-252A-282
                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/10/182,252A
CURRENT FILING DATE: 2003-04-10
PRIOR APPLICATION NUMBER: PCT/DK01/00059
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: EP 00610017.6
PRIOR PRIOR DATE: 2000-01-28
PRIOR APPLICATION NUMBER: US 60/179,333
PRIOR FILING DATE: 2000-01-31
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                                                                                                                           SOFTWARE: Pai
SEQ ID NO 282
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Best Local Similarity
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PRIOR FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: US 60/179,333
PRIOR FILING DATE: 2000-01-31
NUMBER OF SEQ ID NOS: 1388
SOFTWARE: Patentin Ver. 2.1
                                                                                                                                             NUMBER OF SEQ ID NOS: 1388
SOFTWARE: PatentIn Ver. 2.1
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TITLE OF INVENTION: HIV PEPTIDE AND NUCLEIC ACIDS ENCODING THEM FOR DIAGNOSIS
TITLE OF INVENTION: CONTROL OF HIV INFECTIONS
FILE REFERENCE: 030307/0205
CURRENT APPLICATION NUMBER: US/10/182,252A
CURRENT FILING DATE: 2003-04-10
PRIOR APPLICATION NUMBER: PCT/DK01/00059
PRIOR APPLICATION NUMBER: PCT/DK01/00059
PRIOR FILING DATE: 2001-01-29
                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: HIV PEPTIDE AND NUCLEIC ACIDS ENCODING THEM FOR DIAGNOSIS AND TITLE OF INVENTION: CONTROL OF HIV INFECTIONS
FILE REFERENCE: 030307/0205
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
                                                         TYPE: PRT ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION: Description of Artificial Sequence: HIV peptide
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LAUEMOLLER, SANNE LISE
HANSEN, JAN
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CORBET, SYLVIE
LAUEMOLLER, SANNE LISE
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o. US20040072162A1
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Pred. No. 1.2e+06;
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Length 9;

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APPLICANT: CORBET, SYLVIE

APPLICANT: LAUSMOLLER, SANNE LISE

APPLICANT: HANSEN, JAN

TITLE OF INVENTION: HIV PEPTIDE AND NUCLEIC ACIDS ENCODING THEM FOR DIAGNOSIS AND

TITLE OF INVENTION: CONTROL OF HIV INFECTIONS

FILE REFERENCE: 030307/0205

CURRENT APPLICATION NUMBER: US/10/182,252A

CURRENT FILING DATE: 2003-04-10

PRIOR APPLICATION NUMBER: PCT/DK01/00059

PRIOR FILING DATE: 2001-01-29

PRIOR FILING DATE: 2000-01-28

PRIOR APPLICATION NUMBER: US 60/179,333

PRIOR APPLICATION NUMBER: US 60/179,333

PRIOR FILING DATE: 2000-01-31

NUMBER OF SEQ ID NOS: 1388
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US-10-182-252A-878
; Sequence 878, Application US/10182252A
; US20040072162A1
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Best Local S
Matches 4
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SEQ ID NO 878
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Best Local
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APPLICANT: CORBET, SYLVIE
APPLICANT: LAUEMOLLER, SANNE LISE
APPLICANT: HANSEN, JAN
TITLE OF INVENTION: HIV PEPTIDE AND NUCLEIC ACIDS ENCODING THEM FOR DIAGNOSIS AND
TITLE OF INVENTION: CONTROL OF HIV INFECTIONS
FILE REFERENCE: 030307/0205
CURRENT APPLICATION NUMBER: US/10/182,252A
CURRENT FILING DATE: 2003-04-10
PRIOR APPLICATION NUMBER: PCT/DK01/00059
PRIOR APPLICATION NUMBER: EP 00610017.6
PRIOR APPLICATION NUMBER: EP 00610017.6
PRIOR APPLICATION NUMBER: US 60/179,333
PRIOR APPLICATION NUMBER: US 60/179,333
                                                                                                                                                                                                                                                                APPLICANT: FOMSGAARD, ANDI
APPLICANT: BRUNAK, SOREN
APPLICANT: BUUS, SOREN
APPLICANT: CORBET, SYLVII
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APPLICANT: BRUNAK, SOREN
APPLICANT: BUUS, SOREN
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4; Conserv
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57.1%;
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Pred. No.
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Pred. No.
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FILE REFERENCE: 030307/0205

CURRENT APPLICATION NUMBER: US/10/182,252A

CURRENT FILING DATE: 2003-04-10

PRIOR APPLICATION NUMBER: PCT/DK01/00059

PRIOR APPLICATION NUMBER: P0610017.6

PRIOR FILING DATE: 2000-01-28

PRIOR APPLICATION NUMBER: US 60/179,333

PRIOR APPLICATION NUMBER: US 60/179,333

PRIOR FILING DATE: 2000-01-31

NUMBER OF SEQ ID NOS: 1388

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 880
                                                                                                                                              RESULT 41
US-10-182-252A-881
; Sequence 881, Application US/10182252A
; Publication No. US20040072162A1
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                                                                                                                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Description of Artificial Sequence: HIV peptide US-10-182-252A-880
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Best Local S
Matches 4
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SOFTWARE: PatentIn Ver.
SEQ ID NO 879
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Best Local S
                                                                                                                                          GENERAL INFORMATION
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APPLICANT: BRUNAK, SOREN
APPLICANT: BUUS, SOREN
APPLICANT: CORBET, SYLVII
                                                                                                     APPLICANT: FOMSGAARD, ANDERS APPLICANT: BRUNAK, SOREN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: HANSEN, JAN
TITLE OF INVENTION: HIV PEPTIDE AND NUCLEIC ACIDS
TITLE OF INVENTION: CONTROL OF HIV INFECTIONS
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ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
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LAUEMOLLER, SANNE LISE
                                             BUUS, SOREN
CORBET, SYLVIE
LAUEMOLLER, SANNE LISE
                                                                                                                                                                                                                                                                                                                                       Conservative
HIV PEPTIDE AND NUCLEIC ACIDS ENCODING THEM FOR DIAGNOSIS AND CONTROL OF HIV INFECTIONS
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57.1%;
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Pred. No. 1.2e+06;
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PRIOR APPLICATION NUMBER: PCT/DK01/00059
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: EP 00610017.6
PRIOR FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: US 60/179,333
PRIOR FILING DATE: 2000-01-31
NUMBER OF SEQ ID NOS: 1388
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 881
RESULT 43
US-10-182-252A-883
; Sequence 883, Application US/10182252A
; Publication No. US20040072162A1
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Best Local S
Matches 4
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SEQ ID NO 882
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PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: EP 00610017.6
PRIOR FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: US 60/179,333
PRIOR FILING DATE: 2000-01-31
NUMBER OF SEQ ID NOS: 1388
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CURRENT FILING DATE: 2003-04-10
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CURRENT APPLICATION NUMBER: US/10/182,252A
CURRENT FILING DATE: 2003-04-10
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                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: HIV PEPTIDE AND NUCLEIC ACIDS ENCODING THEM FOR DIAGNOSIS AND STATE OF INVENTION: CONTROL OF HIV INFECTIONS
THE REFERENCE: 030307/0205
                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Description of Artificial Sequence: HIV peptide
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ORGANISM: Artificial Sequence
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4; Conservative
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LAUEMOLLER, SANNE LISE
HANSEN, JAN
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o. US20040072162A1
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57.1%; Pred. No. 1.20
tive 2; Mismatches
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APPLICANT: Johnston, Angus
TITLE OF INVENTION: Device and Methods For Directed
TITLE OF INVENTION: Synthesis of Chemical Libraries
FILE REFERENCE: 50277/003002
CURRENT APPLICATION NUMBER: US/10/283,741
CURRENT FILING DATE: 2002-10-30
PRIOR APPLICATION NUMBER: US 60/330,759
PRIOR FILING DATE: 2001-10-30
NUMBER OF SEQ ID NOS: 33
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 30
В
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                                                                                                                                                   ; OTHER INFORMATION: Synthetic US-10-283-741-30
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PRIOR APPLICATION NUMBER: PCT/DK01/00059
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: EP 00610017.6
PRIOR FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: US 60/179,333
PRIOR APPLICATION NUMBER: US 60/179,333
PRIOR FILING DATE: 2000-01-31
NUMBER OF SEQ ID NOS: 1388
                                                                                           Query Match
Best Local (
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Best Local Similarity
Matches 4; Conserv
                                                                         Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Battersby, Bronwy...
Miller, Christopher R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                         LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/10/182,252A CURRENT FILING DATE: 2003-04-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: HANSEN, JAN
TITLE OF INVENTION: HIV PEPTIDE AND NUCLEIC ACIDS ENCODING THEM FOR DIAGNOSIS
TITLE OF INVENTION: CONTROL OF HIV INFECTIONS
FILE REFERENCE: 030307/0205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: FOMSGAARD, ANDERS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Description of Artificial Sequence: HIV peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MLORGNF 7
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                                  1 DEMIQG 6
                                                                        Similarity 66.'
4; Conservative
EFMIDG 9
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Way, Jeffery C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/10283741
10. US20030182068A1
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LAUEMOLLER, SANNE LISE
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                                                                      Score 23; DB 14; Length 9; Pred. No. 1.2e+06; 1; Indels
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Pred. No. 1.2e+06;
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(US-10-359-363A-30)

(US-10-359-363A-30)
Search completed: August 30, 2004, 11:04:53 Job time : 13.0068 secs
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                                                                                               Query Match 46.0%; Score 23; DB 15; Length 9; Best Local Similarity 42.9%; Pred. No. 1.2e+06; Matches 3; Conservative 3; Mismatches 1; Indels
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Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*
  Copyright
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  GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.
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US-09-846-350A-1
US-09-845-725A-1
US-08-457-172-1
US-08-459-568-75
US-08-399-411-75
US-08-516-859A-75
US-08-516-859A-75
US-08-765-953-8
US-08-513-841-5
US-08-915-427-14
US-08-915-805A-52
US-08-215-805A-52
US-08-215-805A-52
US-08-981-122-23
PCT-US96-08723-21
                                                                                                                                                                                                                    US-08-406-330-75
US-08-556-597-75
                                                                                                                                                                                                    5433940-25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Search time 3.55743 Seconds (without alignments)
130.609 Million cell updates/sec
                                                                                                                                                                                                    Sequence 75, Appl
Sequence 75, Appl
Patent No. 5196404
Patent No. 5433940
          Sequence
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35-3	US-08-469-660-31	-08-419-878B-	US-08-440-401-5	US-08-734-591A-31	US-08-456-241-5	US-08-330-161-5	US-08-469-526A-31	US-08-249-322A-31	US-08-456-201-5	US-08-469-569-31	US-08-036-555B-31	US-07-847-743B-5	PCT-US94-01624-15	US-09-785-921A-13	US-08-082-849B-15	US-09-964-201A-23	US-09-026-276-23
Sequence 31, Appl	equence 31	equence 5,	equence 5,	equence	equence 5,	, App1	equence 31	equence 31,	-	Sequence 31, Appl	equence 31,	equence 5,	equence 15,	equence 1	equence 15,	equence 23,	equence 23,

ALIGNMENTS

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; MOLECULE TYPE: peptide US-08-406-330-75
                                                                    Query Match
Best Local S
Matches 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Miller, Jonathan L.
APPLICANT: Lyle, Vicki A.
APPLICANT: Lyle, Vicki A.
TITLE OF INVENTION: MIMOTOPES AND ANTI-MIMOTOPES OF
TITLE OF INVENTION: HUMAN PLATELET GLYCOPROTEIN Ib/IX
NUMBER OF SEQUENCES: 81
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                              TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Ve

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/406,330

FILING DATE:

CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Timian Sugan I
                                                                                                                                                                                                                                                                                                     NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 208
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Nixon, Hargrave, Devans & Doyle STREET: Clinton Square, P.O. Box 1051 CITY: Rochester
                                                                                                                                                                               STRANDEDNESS:
TOPOLOGY: li
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                                                                      Similarity 4; Conserv
FWRGGTF
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Pred. No. 50;
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RESULT 3
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; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-556-597-75
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US-08-556-597-75
                                                                 SEQ ID NO:18:
LENGTH: 10
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Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: 395,482
FILING DATE: 18-AUG-1989
                                                                                                                                             APPLICANT: MARAGANORE, JOHN M.; FENTON II, TITLE OF INVENTION: INHIBITORS OF THROMBIN NUMBER OF SEQUENCES: 18
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/549,388
FILING DATE: 06-JUL-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/406,330
FILING DATE: 17-MAR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
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APPLICANT: Lyle, Vicki A.

FITLE OF INVENTION: MIMOTOPES AND ANTI-MIMOTOPES OF

FITLE OF INVENTION: HUMAN PLATELET GLYCOPROTEIN Ib/IX

NUMBER OF SEQUENCES: 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
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Clinton Square, P.O. Box 1051
                                                                                                                                                                                                                                                                                                                             FVVRGGTF 8
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57.1%;
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 Score 27;
Pred. No.
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Pred. No.
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 DB
61;
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                 Length 10;
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TITLE OF INVENTION: Biopolymer Marker Indicative Of Disease State Having A Molecular TITLE OF INVENTION: of 1020 Daltons
FILE REFERENCE: 2132.025
CURRENT APPLICATION NUMBER: US/09/846,350A
CURRENT FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 1
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 12
TYPE: PRT
ORGANISM: Homo sapiens
US-09-846-350A-1
                                                                                          RESULT 6
US-09-845-725A-1
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5433940-25
;Patent No.
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FILING DATE: 06-JUL-1989
APPLICATION NUMBER: 395,482
FILING DATE: 18-AUG-1989
SEQ ID NO:25:
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Best Local S
Matches 4
                                          Sequence 1, Application US/09845725A Patent No. 6627608 GENERAL INFORMATION:
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Best Local Similarity
Matches 4; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
APPLICANT: Jackowski, George
TITLE OF INVENTION: BIOPOLYMER MARKER INDICATIVE OF DISEASE STATE HAVING A MOLECULAR I
TITLE OF INVENTION: OF 1206 DALTONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Marshall, John
APPLICANT: Vrees, Tammy
APPLICANT: Thatcher, Brad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Jackowski, George
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/834,259
FILING DATE: 17-AUG-1990
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: MARAGANORE, JOHN M., TITLE OF INVENTION: INHIBITORS NUMBER OF SEQUENCES: 25
                                                                                                                                                                                                                    Local Similarity 57. 10s 4; Conservative
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HIBITORS OF THROMBIN
                                                                                                                                                                                                                  Score 27; DB 4;
Pred. No. 75;
2; Mismatches
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Pred. No.
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FILE REFERENCE: 2132.028

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Best Local Similarity
Watches 4; Conserva
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-845-725A-1
                                                  ; CELL TYPE:
US-08-457-172-1
                                                                                                                                                                                            CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/220,395
FILING DATE:
APPLICATION NUMBER: US 07/969,173
FILING DATE: 29-MAR-1993
AFTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 42883/JPW/A
REFERENCE/DOCKET NUMBER: 42883/JPW/A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 977-9809
TELEFAX: (212) 977-9809
TELEFAX: 422523 COOP UI
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Hans Scheefers, Ursula Scheefers-Borchel and
APPLICANT: Andreas Sziegoleit
TITLE OF INVENTION: PANCREAS ELASTASE 1-SPECIFIC ANTIBODY, A PROCESS FOR
TITLE OF INVENTION: OBTAINING IT, AND A TEST KIT CONTAINING SUCH ANTIBODY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/09/845,725A
CURRENT FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 1
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.24

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/457,172
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                                                                                                             MOLECULE TYPE:
ORIGINAL SOURCE:
                                                                                                                                                               TYPE: amino acid
STRANDEDNESS: unl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                           ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ITY: New York
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30 Rockefeller Plaza
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                                                                    homo sapien
pancreatic
                                                                                                                                                unknown
                                                                                                                           protein
                                                                                                                                                                 unknown
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57.1%;
 50.0%;
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 Score 25;
Pred. No.
 DB 1;
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                  Length
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Sequence 75, APPL-
; Sequence 75, APPL-
; Sequence 75, APPL-
; Patent No. 5831008
; GENERAL INFORMATION:
APPLICANT: Huang, Shi
TITLE OF INVENTION: Retinoblastoma Protein - Interacting
TITLE OF INVENTION: Zinc Finger Proteins
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
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MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/459,568
FILING DATE: 02-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/399,411
APPLICATION NUMBER: US 08/399,411
FILING DATE: 06-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Campbell Cathern A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patent No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Campbell, Cathryn A. REGISTRATION NUMBER: 31,815 REFERENCE/DOCKET NUMBER: P-LJ TELECOMMUNICATION INFORMATION: TELEPHONE: (619) 535-9001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: Retir TITLE OF INVENTION: Zinc NUMBER OF SEQUENCES: 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
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STATE: California
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 MIQGGD
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                                                                                                                                                                                                                                                                                                                                                                           3 LLEGGD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E: Campbell and Flores
4370 La Jolla Village Drive, Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Retinoblastoma Protein - Interacting Zinc Finger Proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 24; DB 2;
Pred. No. 3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 8;
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US-08-516-859A-75
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NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-LJ 1264

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-9001

TELEPAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 75:

SEQUENCE CHARACTERISTICS:

LENGTH: 8 amino acids

TYPE: 3510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patent No. 6069231
GENERAL INFORMATION:
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Best Local Similarity
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TELEFAX: (619) 535-8949 INFORMATION FOR SEQ ID NO: 75: SEQUENCE CHARACTERISTICS:
                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/399,411
FILING DATE: 06-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/292,683
FILING DATE: 18-AUG-1994
ATTORNEY/AGENT INFORMATION:
                                                    NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 1776
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/516,859A
FILING DATE: 18-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NERAL INFORMATION:
APPLICANT: Huang, Shi
TITLE OF INVENTION: Retinoblastoma Protei
TITLE OF INVENTION: Zinc Finger Proteins
TITLE OF CHOUENCES: 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/399,411 FILING DATE: 06-MAR-1995 CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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Pred. No. 3e+05;
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US-09-586-472-75
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                                                                                                                                                                            TELEFAX: (617) ---
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 75, Application Patent No. 6323335
GENERAL INFORMATION:
APPLICANT: Huang,
                                                                       Matches
                                                                                         Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 48.0%;
Best Local Similarity 50.0%;
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/09/586,472

APPLICATION NUMBER: US/09/586,472
FILING DATE: 01-Jun-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US 09/528,706
FILING DATE: 17-MAR-2000
APPLICATION NUMBER: US 08/516,859
FILING DATE: 18-AUG-1995
APPLICATION NUMBER: US 08/399,411
FILING DATE: 06-MAR-1995
APPLICATION NUMBER: US 08/292,683
FILING DATE: 18-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 8 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 31,8
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                             TOPOLOGY: linear SEQ ID NO: 75:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: Retinoblastoma Protein - Interacting
Zinc Finger Proteins
3 LLEGGD
                                  3 MIQGGD 8
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                                                                                         Similarity
                                                                                                                                                                                                                                                                       TELEPHONE: (619) 535-900
TELEFAX: (619) 535-8949
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STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: USA
ZIP: 92122
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                                                                       Conservative
                                                                    48.0%; Score 24; DB 4; 50.0%; Pred. No. 3e+05; tive 3; Mismatches
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Pred. No. 3e+05;
3; Mismatches
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                                                                       0;
                                                                                                        Length 8;
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RESULT 12

Sequence 75, Application US/09528706 Patent No. 6468985 GENERAL INFORMATION:

Retinoblastoma Protein - Interacting Zinc Finger Proteins

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; TYPE: amino acid
; TOPOLOGY: linear
US-09-528-706-75
                                                                                                                                                                                                                                                                                                        US-08-765-953-8
                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches
                                                                                                                                                                                                                                                                                     Sequence 8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/292
FILING DATE: 18-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION 1050835-3001
                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Huang, Shi
TITLE OF INVENTION: Retin
TITLE OF INVENTION: Zinc
NUMBER OF SEQUENCES: 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
                                                                                                                                                                   APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                       APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                 STREET: 50.
STREET: 50.
TTTY: Chicago
                                                                                                                                   PLICANT: KENKLEIN, PETER
TILE OF INVENTION: COMPLEX COMPOUNDS FOR DIAGNOSIS OF
TILE OF INVENTION: VASCULAR DISEASES
STATE: IL
COUNTRY: USA
ZIP: 60661-2511
                                                                                   DDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                          3 MIQGGD 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                      Application US/08765953
                                                                  3: WOOD, PHILLIPS, VAN SANTEN, CLARK & MORTIMER 500 West Madison Street, Suite 3800
                                                                                                                                                                                                       STEPHAN, CHRISTOPH
SEMMLER, WOLFHARD
                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                      SPECK,
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                                                                                                                                                                                     ULRICH
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50.0%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 4;
3e+05;
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Best Local :
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SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
                                                                                                              HYPOTHETICAL: NAMI-SENSE: NO FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
COMPUTER: COMPAQ Pro
                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 30,407
REFERENCE/DOCKET NUMBER: 12
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: WordPerfect for Windows 6.0a CURRENT APPLICATION DATA:
                                                                                                                                                          MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 13-JULY-1994
ATTORNEY/AGENT INFORMATION:
                                   Local Similarity 100.0%; hes 4; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/DE95/0083 FILING DATE: 21-JUNE-1995 APPLICATION NUMBER: P 44 25 778.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                     TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER:
                                                                                                                                                                                           STRANDEDNESS:
                                                                                                                                                                                                          I: 10 amino acids amino acid
                                                                                                                                                                                                                                                                                                                                                                    Mortimer, John S
                                                                                                                                                                                                                                                                                          312/876-2020
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                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                        312/876-1800
                                                                                                                                             : peptide
NO
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                                                                                                                                                                                           single
                                                                   48.0%;
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                                   Score 24; DB 4; Lo
; Pred. No. 2.1e+02;
0; Mismatches 0;
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                                                                 Length 10
                                     Indels
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RESULT 14 US-08-487-860-62 Sequence 62, Application US/08487860 Patent No. 5792456 COUNTRY: USA
ZIP: 90025-3395
ZIP: 90025-3395
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,860
FILING DATE: 07-JUN-1995 CLASSIFICATION: 530 ATTORNEY/AGENT INFORMATION: NAME: Adriano, Sarah B. NUMBER OF SEQUENCES: 62
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Bldv., Suite 400 APPLICANT: Yelton, Dale APPLICANT: Glaser, Scott APPLICANT: Huse, William APPLICANT: Rosok, Mae J. ITLE OF INVENTION: No. 5792456el Mutant BR96 Antibodies and ITLE OF INVENTION: Functional Equivalents Reactive With Human Carcinomas JMBER OF SEQUENCES: 62 STREET: 11150 San CITY: Los Angeles INFORMATION: C_P US/08/487,860 Version #1.25

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US-08-704-170-48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; MOLECULE TYPE: peptide US-08-487-860-62
                                                       Query Match
Best Local
                                    Matches
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Best Local Similarity
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                  TELEFAX: (213) 977-1003 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Douvas
APPLICANT: Takeha
                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
                                                                                                                                                                                                                            NAME: Spitals, John P.
REGISTRATION NUMBER: 29,215
REFERENCE/DOCKET NUMBER: 19;
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 977-1001
                                                                                                                MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/029,850
                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/704,170
                                                                                                                                                                                                                                                                                                            FILING DATE: 11-MAR-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: 310-445-1140
                                    Local Similarity hes 4; Conserv
                                                                                                                                    TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            THE OF INVENTION: THERAPEUTIC STRATEGIES FOR INFECTIONS INFECTIONS
                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ENGTH:
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T: 201 No. 5707626th Figueroa Street, Suite 500
Los Angeles
: California
      DFMIQGGD 8
                                                                                                                                                  amino acid
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                                     Conservative
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Takehana, Yoshi
Ehresmann, Glenn
                                                                                                                                   linear
                                                     46.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        46.0%; Score 23; DB 1; Length 8; 100.0%; Pred. No. 3e+05; rive 0; Mismatches 0; Indels
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                                    Score 23; DB 1;
Pred. No. 3e+05;
2; Mismatches
                                    2; Indels
                                                                 Length 9;
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RESULT 17
US-08-513-841-5
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PCT-US94-02631-48
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Matches
                                                                                                                                                                                                                               Sequence 5, Applic Patent No. 5753481
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (213) 977-100
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: YOUL
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Spitals, John P.
REGISTRATION NUMBER: 29,215
REFERENCE/DOCKET NUMBER: 19:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 977-1001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/02631
FILING DATE:
CLASSIFICATION:
                                                       TITLE OF INVENTION: No. 5753481el L-sorbose Dehydrogenase and No. 5753481el TITLE OF INVENTION: Dehydrogenase Obtained from Gluconobacter oxydans T-100 NUMBER OF SEQUENCES: 22
                                                                                                                                                    APPLICANT: Niwa, Mineo
APPLICANT: Saito, Yoshimasa
APPLICANT: Ishii, Yoshinori
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
FILING DATE: 11-MAR-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 201 ...
STREET: Los Angeles
CITY: Los Angeles
CTATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: Robbins, Berliner & Carson
STREET: 201 North Figueroa Street, Suite 500
                                       CORRESPONDENCE ADDRESS:
                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: THERAPEUTIC STRATEGIES FOR INFECTIONS IMMUNOINFECTIVE CLUSTER VIRUS INFECTIONS
                                                                                                                                                                                                                                                                                                                                                                                                                          y Match 46.0%; Local Similarity 50.0%; nes 4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                    1 DEMIQGGD 8
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GY: linear
                                                                                                                                                                                                                                                  Application US/08513841
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                                                                                                             Yoshida, Masaru
Suzuki, Hiromi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ehresmann,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Douvas, Angeline
Takehana, Yoshi
Oblon, Spivak, McClelland, Maier & Neustadt,
55 Jefferson Davis Highway, Suite 400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
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Pred. No. 3e+0
2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 5;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 9;
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CITY: Ar STATE: V COUNTRY:

Arlington S: Virginia CRY: USA

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Best Local Similarity
Matches 3; Conserv
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino and the second 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 6,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 9304700.9
FILING DATE: 08-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 241851/1993
FILING DATE: 28-SEP-1993
FILING DATE: 28-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: NORMAN F. OBLON
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 18-909-0 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEPAX: 703-413-2220
TELEPAX: 703-413-2220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Niwa, Mineo
APPLICANT: Saito, Yoshimasa
APPLICANT: Ishii, Yoshinori
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM: PC-DOS
SOFTWARE: MS-DOS Editor
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Yoshida, Masaru
APPLICANT: Hayashi, Hiromi
TITLE OF INVENTION: Method for Producing 2-Keto-L-Gulonic Acid
NUMBER OF SEQUENCES: 48
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide -513-841-5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/696,834
FILING DATE: 24-SEP-1996
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 01-
CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: P.C.
STREET: 1755 Jefferson Davis Highway, Suite 400
CITY: Arlington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Z
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GY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Virginia
                                                                                                                                                                                                                                                                                                                                                                                                            USA
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42.9%;
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Pred. No. 4.
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CLASSIFICATION:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/513,841
FILING DATE: 01-NOV-1995
APPLICATION NUMBER: UK 9304700.9
FILING DATE: 08-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UP 241851/1993
FILING DATE: 28-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: NORMAN F. OBLON
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 18-909-0 PCT
TELECOMMUNICATION INFORMATION:
TELECHONE: 703-413-3000

18-909-0 PCT

COUNTAL.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch,
MEDIUM TYPE: IBM PC compatible
TOWNITTER: IBM PC-DOS/MS-DOS

3.50 inch, 1.44 Mb storage

COMPUTER: IBM PC compatible COMPUTER: IBM PC COMPATIBLE PC-DOS/I SOPTWARE: MS-DOS Editor CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08 FILING DATE:

US/08/942,673

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Best Local Similarity
Watches 3; Conserve
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                                                                                                                                                                                                                                                                                             US-08-942-673-5
                                                                                                                                                                                                                                                        Sequence 5, Appl
Patent No. 58612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: (703) 413-300
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: (
                                                                                             APPLICANT: Yoshida, Masaru
APPLICANT: Suzuki, Hiromi
TITLE OF INVENTION: No. 58
TITLE OF INVENTION: L-sorb
TITLE OF INVENTION: oxydan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear MOLECULE TYPE: peptide
CORRESPONDENCE ADDRESS:
ADDRESSEE: Oblon, Spivak, McClelland, Maier & Neustadt, P.C. STREET: 1755 Jefferson Davis Highway, Suite 400 CITY: Arlington STATE: Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: TELEPHONE: (703) 413-3000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 28612/1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                            1 prmiogę 7
                                                                                                                                                                                                                                                                                                                                                             DYIVVĠĠ 11
                                                                                                                                                                                                                                                                          Application US/08942673
                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                       Saito, Yoshimasa
Ishii, Yoshinori
                                                                                                                                                                                                                            Niwa, Mineo
                                                                                                                                                                      Yoshida, Masaru
                                                                                                                                                                                                                                            TION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-FEB-1994
                                                                                     No. 5861292el L-sorbose Dehydrogenase and No. 5861292el L-sorbosone Dehydrogenase Obtained from Gluconobacter oxydans T-100 : 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                 46.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                              Score 23; DB 2; Pred. No. 4.5e+02; 3; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 14;
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US-09-118-317-5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence; FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: peptide
US-09-155-427-14
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US-09-155-427-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide US-08-942-673-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 42.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Ver. 2.0 SEQ ID NO 14 LENGTH: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 14, Applicate Patent No. 6159704 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                     Sequence 5, Application US/09118317 Patent No. 6197562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/155,427A
CURRENT FILING DATE: 1998-09-28
EARLIER APPLICATION NUMBER: PCT/EP97/01330
EARLIER FILING DATE: 1997-03-17
NUMBER OF SEQ ID NOS: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Hemmings, Brian A
TITLE OF INVENTION: Phosphatase Modulator
FILE REFERENCE: 4-20803/A/PCT
                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                      APPLICANT: Niwa, Min
APPLICANT: Saito, Yo
APPLICANT: Ishii, Yo
APPLICANT: Yoshida, I
APPLICANT: Suzuki, H:
TITLE OF INVENTION: I
TITLE OF INVENTION: I
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
CCMPUTER: IBM PC compatible
                                                                                                                                         NUMBER OF SEQUENCES: CORRESPONDENCE ADDRESS
                                                COUNTRY: US
                                                                                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH:
                                                            : Arlington
3: Virginia
TRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ហ
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                                                                                                          E: Oblon, Spivak, McClelland, Maier & Neustadt, P.C. 1755 Jefferson Davis Highway, Suite 400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Application US/09155427A
                                                                                                                                                                                                                        Suzuki, Hiromi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                       Mineo
                                                                                                                                                                                                                                       , Yoshinori
da, Masaru
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           46.0%;
                                                                                                                                                                                                                                                                       Yoshimasa
                                                                                                                                                         No. 6197562el L-sorbose Dehydrogenase and No. 6197562e
L-sorbosone Dehydrogenase Obtained from Gluconobacter
oxydans T-100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%;
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Pred. No. 4.5e+02;
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Pred. No. 4.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 14;
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CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 1960
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 7:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             equence 7, Application US/08215805A
Patent No. 5559008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Chang, Yung-Fu
APPLICANT: Chang, Yung-Fu
TITLE OF INVENTION: LEUKOTOXIN GENE FROM PASTEURELLA
TITLE OF INVENTION: SUIS
NUMBER OF SEQUENCES: 84
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/513,841
FILING DATE: 01-NOV-1995
APPLICATION NUMBER: UK 9304700.9
FILING DATE: 08-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 241851/1993
PRIOR DATE: 28-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: NORMAN F. OBLON
REGISTRATION NUMBER: 24,618
BREEDENCE/DOCUMENT NUMBER: 24,618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 703-413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                       COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PATENTIN Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION: TELEPHONE: 703-413-3000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MS-DOS Editor
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                     STREET: C...
CTTY: Rochester
TTY: York
                                                                                                                                                                                    APPLICATION NUMBER: US/0 FILING DATE: 22-MAR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       / Match 46.0%;
Local Similarity 42.9%;
les 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/09/118,317
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                                                                                                                                                                                                                                                                                                                                               14603
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                                                                                                                                                                                                                                                                                                                                                                                                                            E: Nixon, Hargrave, Devans & Doyle Clinton Square, P.O. Box 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14 amino acids
                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOCKET NUMBER:
                                                                                                                                                                                                          US/08/215,805A
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                                                                                       19603/61 (D-1329A)
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4.5e+02;
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                                                                                                           US-08-215-805A-52
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Best Local Similarity 80.0
                                                    Query Match
Best Local S
Matches 3
                                                                                                                                                                                            INFORMATION
TELEFAX: (716) 263-1636
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino activations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent No. 555, ... Patent No. 555, ... Patent No. 555, ... Parent No. 555, ... Pang,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN: 5943
IMMEDIATE SOURCE:
LIBRARY: P. suis DNA in Bacteriophage lambda-dash
CLONE: (Lambda)yfc33-37
                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                         NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 19
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/08
FILING DATE: 22-MAR-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                        MOLECULE TYPE: peptide ORIGINAL SOURCE: ORGANISM: Actinobaci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RIGLING PAS
ORGANISM: Pas
ORGANISM: 5943
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TY: Rochester
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                                                      Similarity 3; Conserv
                                                                                                                                                                                           amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               E: Nixon, Hargrave, Devans & Doyle Clinton Square, P.O. Box 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
                                                       Conservative
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60.0%;
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Pred. No.
                                                       Score 22; DB Pred. No. 3e+0 2; Mismatches
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                                                                     DB 1;
3e+05;
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                                                                                                                                                                                                                             US-08-658-130-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 1960
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 58:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent No. 5559008
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 58, Application US/08215805A Patent No. 5559008
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                                                                                                                                                                                             Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PATENTIAN Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
ORIGINAL SOURCE:
ORGANISM: Act
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: TITLE OF INVENTION: NUMBER OF SEQUENCES:
                              CORRESPONDENCE ADDRESS:
                                                 UMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: FILING DATE: 22-MAI CLASSIFICATION: 43
                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CYPE: amino acid
                 ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ENGTH:
                                                           LICANT: Jessee, Joel A.
LICANT: Shifferli, Kevi
LE OF INVENTION: Peptid
LE OF INVENTION: Transf
                                                                                                                                                                              INFORMATION:
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Clinton Square,
E: Greenlee, Winner and Sullivan, P.C 5370 Manhattan Circle, Suite 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9 amino acids
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80.0%;
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quare, P.O.
                                                                Transfections
                                                                               Peptide-Enhanced Cationic Lipid
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                                                                                                Kevin P
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                                                                                                                                                                Pamela
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Pred. No.
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3e+05;
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COUNTRY: U

CITY: Boulder STATE: Colorac

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                                                                                                                                   OTHER INFORMATION: Sequence of a peptide synthesized in Example 3 from L-form Patent No. 6127339
OTHER INFORMATION: F-moc amino acids by solid phase method using a multipeptic OTHER INFORMATION: synthesizing system (RaMPS)
                                                                                                                                                                                                              SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 23
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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Matches
                                         Matches
                                                                           Query Match
                                                           Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No. 6127339
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                          FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/08/981,122B
CURRENT FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: JP 7-176904
PRIOR FILING DATE: 1995-06-21
PRIOR APPLICATION NUMBER: PCT/JP96/01734
PRIOR FILING DATE: 1996-06-21
NUMBER OF SEQ ID NOS: 90
NUMBER OF SEQ ID NOS: 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Hatanaka, APPLICANT: Aritomi, N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TLE OF INVENTION:
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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/477,354
APPLICATION 07-JUN-1995
TWG DATE: 07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: protein HYPOTHETICAL: NO FRAGMENT TYPE: internal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
STRANDEDNESS: sin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGISTRATION NUMBER: 34,464
REFERENCE/DOCKET NUMBER: 32-95A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Caruthers, Jennie M
REGISTRATION NUMBER: 34,4
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                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  internal
                                                                                                                                F-moc amino acids by solid phase method using a multipeptide synthesizing system (RaMPS) \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Masaharu
Peptide for binding thereto a low density lipoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Yoshihiro
                                                         44.0%;
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                                    Score 22; DB 3; Length 10; Pred. No. 4.7e+02; Indels
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Pred. No. 4.7e+02;
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; MOLECULE TYPE:
; HYPOTHETICAL: N
; FRAGMENT TYPE:
PCT-US96-08723-21
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PCT-US96-08723-21
GENERAL INFORMATION:

APPLICANT: Kenten, John H

APPLICANT: Tramontano, Alfonso

APPLICANT: Pilon, Aprile L

APPLICANT: Lohnas, Gerald L

APPLICANT: Roberts, Steven F

TITLE OF INVENTION: HEAT-SHOCK FUSION-BASED VACCINE SYSTEM

FILE REFERENCE: U.S. Patent Application No. 6319503 09\026,276

CURRENT APPLICATION NUMBER: US/09/026,276

CURRENT FILING DATE: 1998-02-19

NUMBER OF SEQ ID NOS: 35
                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 23, Application US/09026276 Patent No. 6319503
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION
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TITLE OF INVENTION: Peptide-Enhanced Cationic Lipid
TITLE OF INVENTION: Transfections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Caruthers, Jennie
REGISTRATION NUMBER: 34,
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS:
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FILING DATE: 04-JUN-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein
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Pred. No. 4.7e-
1; Mismatches
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; TYPE: PRT ; ORGANISM: Homo sapiens US-09-026-276-23
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US-09-964-201A-23
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Best Local S
Matches 3
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LENGTH: 11
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SEQ ID NO 23
LENGTH: 11
TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 3; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Pilon, Aprile L
APPLICANT: Lohnas, Gerald L
APPLICANT: Roberts, Steven F
TITLE OF INVENTION: HEAT-SHOCK FUSION-BASED VACCINE SYSTEM
FILE REFERENCE: U.S. Patent Application No. 6660271 09\026,276
CURRENT APPLICATION NUMBER: US/09/964,201A
CURRENT FILING DATE: 2002-05-21
NUMBER OF SEQ ID NOS: 35
                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: Leppla, Stephen H.
APPLICANT: Klimpel, Kurt R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Kenten, John H
APPLICANT: Tramontano, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PI
                                                                                                                                                                                                                                  APPLICANT: Singh, Yogendra
APPLICANT: Nichols, Peter J.
TITLE OF INVENTION: Anthrax Toxin Fusion Proteins
TITLE OF INVENTION: Related Methods
NUMBER OF SEQUENCES: 35
                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
            ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                               STREET: Two Embarcac
CITY: San Francisco
STATE: California
                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION:
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Similarity 60.0%;
3; Conservative
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Singh, Yogendra
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US/08/082,849B
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Pred. No.
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Pred. No. 5.
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RESULT 32 PCT-US94-01624-15

Sequence 15, Application PC/TUS9401624 GENERAL INFORMATION:

APPLICANT:
APPLICANT:

Leppla, Stephen H. Klimpel, Kurt R.

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ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 1528
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acida
                                                                                                                                                                                          ; Sequence 13, Application US/09785921A
; Patent No. 6627197
; GENERAL INFORMATION:
; APPLICANT: Keener, William K.
; APPLICANT: Ward, Thomas E.
TITLE OF INVENTION: SELECTIVE DESTRUCTION OF CELLS INF
TITLE OF INVENTION: IMMUNODEFICIENCY VIRUS
; FILE REFERENCE: LIT-PI-529
; CURRENT APPLICATION NUMBER: US/09/785,921A
; CURRENT FILING DATE: 2001-02-15
; NUMBER OF SEQ ID NOS: 17
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US-09-785-921A-13
g
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                                                                                                                     ; ORGANISM: Human immunodeficiency virus US-09-785-921A-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                  SEQ ID NO 13
LENGTH: 12
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                                                                         Query Match
Best Local Similarity
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APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HYPOTHETICAL: N
FRAGMENT TYPE:
ORIGINAL SOURCE:
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CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match 44.0%;
Local Similarity 57.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: 1..12
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: Peptide
LOCATION: 1..12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LECULE TYPE:
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                           3 MIQGGDF 9
5 MMQRGNF 11
                                                          4; Conservative
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linear
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NO
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                                                                          44.0%;
57.1%;
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                                                            Score 22; DB Pred. No. 5.7e 2; Mismatches
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Pred. No. 5.7e+02;
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                                                                                            DB 4;
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RESULT 33
US-07-847-743B-5
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                                                                                                                                                                                                                          Sequence 5, Application US/07847743B Patent No. 5367060 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
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INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
                                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Weber, Kenneth A. REGISTRATION NUMBER: 31,677 REFERENCE/DOCKET NUMBER: 15. TELECOMMUNICATION INFORMATION: TELEPHONE: (415) 543-9600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
                                                                      AUDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                     PPLICANT: Genentech, Inc.
ITLE OF INVENTION: Structure,
ITLE OF INVENTION: Heregulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: PCT/US94/01624 FILING DATE: June 25, 1993 CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: /label= PAHIV-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      YPE: amino acid
TRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CULE TYPE: peptide THETICAL: NO
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4; Conservative
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CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  T: Nichols, Peter J.
INVENTION: ANTHRAX TOXIN FUSION PROTEINS AND
INVENTION: RELATED METHODS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E: TOWNSEND and TOWNSEND KHOURIE and CREW Steuart Street Tower, 20th Floor, One Market Plaza
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12 amino acids
                                                        USA
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linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      internal
                                                                                                                                                                                                                                                                                                                                                                                                                                44.0%;
57.1%;
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Pred. No. 5.7e+0;
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                                                                                                                                                                                         Production and
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Best Local Similarity
""arches 3; Conserva
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TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 5
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: AMINO ACID
TYPE: 11 inear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patent No. 5530109
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 31,
           APPLICATION NUMBER: US/08/036,555B FILING DATE: 24-MAR-1993 CLASSIFICATION: 435
PRIOR APPLICATION DATA: APPLICATION NUMBER: 07/965,173
FILING DATE: 23-OCT-1992
PRIOR APPLICATION NUMBER: 07/940,389
APPLICATION NUMBER: 07/940,389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705
FILING DATE: 24-May-1991
PRIOR APPLICATION DATA:
                                                                                                                                                         COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Hensley, Max D.
REGISTRATION NUMBER: 27,043
REFERENCE/DOCKET NUMBER: 71
TELECOMMUNICATION; INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/790801
FILING DATE: 08-NO. 5367060-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 08-NO. 5367
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                        STREET: 805 Third At CITY: New York City
                                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 07/7 FILING DATE: 25-Sep-1991
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                                                                                                                                                                                                                                                                          10022
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                                                                                                                                                                                                                                                                                                         New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Application US/08036555B
                                                                                                                                                                                                                                                                                                                                         E: Felfe & Lynch
805 Third Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                Goodearl, Andrew; Stroobant, Paul;
Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;
Chen, Maio Su; Hiles, Ian
VVENTION: Glial Mitogenic Factors, Their
                                                                                                                                                                                                                                                                                         USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           415/266-1489
JMBER: 07/940,389
03-SEP-1992
                                                                                                                                                                                                                                   Diskette, 5.25 inch,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19920306
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                                                                                                                                                                                                                                                                                                                                                                                                                  Preparation and Use
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Pred. No. 6.2e+02;
2; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 712P3
                                                                                                                                                                                                                                  360 kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 13;
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PRIOR APPLICATION DATA:

APPLICATION NUMBER:

RIOR APPLICATION DATA:

FILING DATE:

30-JUN-1992

07/907,138

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Best Local Similarity 42.9%;
Matches 3; Conservative
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FILING DATE: 03-APRIL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.K. 91 07566.3
FILING DATE: 10-APRIL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Tsai, Christine H.
REGISTRATION NUMBER: 34,266
REFERENCE/DOCKET NUMBER: LUD 5250.4
TELECOMMUNICATION INFORMATION:
                                                      COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/469,569

FILING DATE: 06-JUN-1995

CLASSIFICATION DATA:

APPLICATION NUMBER: 08/036,555

FILING DATE: 24-MAR-1993

APPLICATION NUMBER: 07/965,173

FILING DATE: 23-OCT-1992

PRIOR APPLICATION NUMBER: 07/940,389

FILING DATE: 03-SEP-1992

FILING DATE: 03-SEP-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Atent No. 5606032
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 31:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Goodearl, Andrew; Stroobant, Paul;
APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;
APPLICANT: Chen, Maio Su; Hiles, Ian
TITLE OF INVENTION: Glial Mitogenic Factors, Their
TITLE OF INVENTION: Preparation and Use
                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                        PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid STRANDEDNESS: TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
APPLICATION NUMBER: 07/907,138 FILING DATE: 30-JUN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7 FCVNGGE 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 FMIQGGD 8
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                                                                                                                                                                                                                                                                                                                                                                            Diskette, 5.25 inch, 360 kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 22; DB
Pred. No. 6.2e
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .2e+02;
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US-08-456-201-5
                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/456,201
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/126,145
FILING DATE:
CLASSIFICATION NUMBER: US/08/126,145
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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Best Local S
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TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno
CITY: South San Francisco
STATE: California
                                                                                                                                   FILING DALE.

APPLICATION NUMBER: 07/880, > 1.

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/705256

PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: 07/765212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: LUTELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Tsai, Christine H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 03-APRI PRIOR APPLICATION DATA:
                                                                                      APPLICATION NUMBER: 07/765212
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/790801
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Vandlen, Richard I
APPLICANT: Holmes, William E.
TITLE OF INVENTION: Structure
TITLE OF INVENTION: Heregulir
REFERENCE/DOCKET NUMBER: 71
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/266-1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity les 3; Conserv
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STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
                                                         NAME: Hensley, Max D. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       94080
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FMIQGGD 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ech, Inc.
San Bruno Blvd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Richard L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Structure,
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                                                     27,034
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                                         712P4
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TELEX: 910/371-7168 INFORMATION FOR SEQ ID NO:

TELEFAX:

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Best Local Similarity 42.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent No. 5716930 GENERAL INFORMATION:
                                                                     TELEFAX: (212) 838-3884 INFORMATION FOR SEQ ID NO: 31:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-249-322A-31
                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/907
FILING DATE: 30-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/863
                                                                                                                   APPLICATION NUMBER: U.K. 91 07566.3
FILING DATE: 10-APRIL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Tsai, Christine H.
REGISTRATION NUMBER: 34,266
REFERENCE/DOCKET NUMBER: LUD 250.4
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATE: 24-MAX. -
FILING DATE: 24-MAX. -
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,173
APPLICATION NUMBER: 23-OCT-1992
                                                                                                                                                                                                               FILING DATE: 03-APRIL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.K. 91 075
FILING DATE: 12
                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/036,555
FILING DATE: 24-MAR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/249,322A
FILING DATE: 26-MAY-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 26
CLASSIFICATION:
STRANDEDNESS:
                                                                                                       TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: PC-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE OF INVENTION:
THE OF INVENTION:
THE OF SEQUENCES:
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                   amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Goodearl, Andrew; Stroobant, Paul;
Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;
Chen, Maio Su; Hiles, Ian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         USA
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                                                                                                         (212)
                                                                                                                                                                                                                                                                                                                                                                             NUMBER: 07/940,389
03-SEP-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Diskette, 5.25 inch, 360 kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          44.0%;
42.9%;
                                                                                                       688-9200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Preparation and Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Glial Mitogenic Factors, Their
                                                                                                                                                                                                                                                                                                                                           07/907,138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 22; DB 1; Length 13; Pred. No. 6.2e+02; Indels 2; Mismatches 2; Indels
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; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-469-526A-31
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US-08-469-526A-31
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Query Match
Best Local Similarity 42...
Thes 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 42.9
Matches 3; Conservative
                                                                                                                                                                                                                                           FILING DATE: 23-OCT-1992
APPLICATION NUMBER: 07/940,389
FILING DATE: 03-SEP-1992
APPLICATION NUMBER: 07/907,138
FILING DATE: 03-JUN-1992
APPLICATION NUMBER: 07/863,703
FILING DATE: 03-APRIL-1992
APPLICATION NUMBER: U.K. 91 07566.3
FILING DATE: 10-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Bieker-Brady, Kristina
REGISTRATION NUMBER: 39,109
REFERENCE/DOCKET NUMBER: 04585/00200A
                                                                                                                                                                               TELEFAX: 617-428-7045 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
08/036,555
                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,526A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 187
CORRESPONDENCE ADDRESS:
ADDRESSEE: Clark & Elbing LLP
                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION: TELEPHONE: 617-428-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: STREET: MA
                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICALE: 24-rm. 07/96
APPLICATION NUMBER: 07/96
APPLICATION STATE: 23-OCT-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM CON OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 08/0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FMIQGGD 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Application US/08469526A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    176 Federal Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Chen, Maio Su
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Waterfield, Michael
Marchionni, Mark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Minghetti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Goodearl, Andrew
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06 June 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GLIAL MITOGENIC FACTORS, THEIR PREPARATION AND USE
                                      44.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                44.0%;
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                                                                                                                                                                                 31:
                       Score 22; DB 1; L
Pred. No. 6.2e+02;
2; Mismatches 2;
                                                                                                                                                                                                                                             04585/00200A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 22; DB 1;
Pred. No. 6.2e+02;
2; Mismatches 2
                                                    Length 13;
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                        Indels
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                        Gaps
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EMIQGGD 8

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; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 5
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TYPE: amino acid
; TOPOLOGY: linear
US-08-330-161-5
                                   Sequence 5, Application US/08456241
Patent No. 5840525
GENERAL INFORMATION:
APPLICANT: Vandlen, Richard L.
APPLICANT: Holmes, William E.
TITLE OF INVENTION: STRUCTURE, P.
TITLE OF INVENTION: HEREGULIN
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     멂
                                                                                                                                                                                                                                             RESULT 40
US-08-456-241-5
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Sequence 5, Appr--
Sequence 5, Appr--
Sequence 5, Appr---
Sequence 5, Appr---
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/035430
FILING DATE: 22-MAR-1993
APPLICATION NUMBER: 07/705256
FILING DATE: 24-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Adler, Carolyn R.
REGISTRATION NUMBER: 32,324
REFERENCE/DOCKET NUMBER: 712C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-2614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Patent No. 5834229
GENERAL INFORMATION:
APPLICANT: Vandle
APPLICANT: Holmes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PPLICANT: Vandlen, Richard
PPLICANT: Holmes, William
ITLE OF INVENTION: Structure, Production and Use of Heregulin 2 Ligands
MBER OF SEQUENCES: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: FILING DATE: CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: 415/225-26
TELEFAX: 415/952-9881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94080
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                                                                                                                                                                                                                                                                                                                                          FXVNGGE 13
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460 Point San Bruno Blvd
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                                                                                                                 PRODUCTION AND USE OF
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RESULT 41
US-08-734-591A-31
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US-08-456-241-5
                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 3; Conserv
Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 08/126145
FILING DATE: 23-SEP-193
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/880917
FILING DATE: 11-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/847743
FILING DATE: 06-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/790801
FILING DATE: 08-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/765212
FILING DATE: 08-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/765212
FILING DATE: 25-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 00,000 REFERENCE/DOCKET NUMBER: 71 TELECOMMUNICATION INFORMATION: 115/225-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 07/70 FILING DATE: 24-MAY-1991 ATTORNEY/AGENT INFORMATION: NAME: Lee, Wendy M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/0 FILING DATE: 31-MAY-1995 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 94080
                                                                                                                                                    31, Application US/08734591A
5. 5854220
                                                                                                                                      INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                             44.0%;
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Pred. No. 6.
                                                                                                                                                                                                                                                                                                                                                              2e+02
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APPLICANT: Chen, Mario
TITLE OF INVENTION: GLIAL MITOGE
TITLE OF INVENTION: PREPARATION
NUMBER OF SEQUENCES: 187

GLIAL MITOGENIC FACTORS, THEIR PREPARATION AND USE

ADDRESS:

Boston Massachusetts

U.S.A

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RESULT 42
US-08-440-401-5
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TOPOLOGY:
US-08-734-591A-31
                                                                                                                                                                              Sequence 5, Application US/08440401 Patent No. 5856110
                                                                                                                                                                                                                                                                                                                                                         Query Match 44.0%;
Best Local Similarity 42.9%;
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                             Matches
                                                             GENERAL INFORMATION:
APPLICANT: Vandlen, Richard L.
APPLICANT: Holmes, William E.
TITLE OF INVENTION: Structure, P
TITLE OF INVENTION: Heregulin 2
NUMBER OF SEQUENCES: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: UK 91 07566.3
PRICTURG DATE: 10-APR-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION DATA:
PRIOR APPLICATION NIMBER: 08/470,335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 04:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 428-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: 07/863,703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: 07/965,173
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM: Windows95
SOFTWARE: WordPerfect (Version 7.0)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44
COMPUTER: IBM Compatible Pentium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Bieker-Brady, Kristina REGISTRATION NUMBER: 39,109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 07/8 FILING DATE: 03-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/0 FILING DATE: 22-OCT-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 23-OCT-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 06-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ENGTH:
                                                                                                                                                                                                                                                                                        7 FCVNGGE 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (617) 428-7045
                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
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1:
                                                                                                                                                                                                                                                                                                                                                       Score 22; DB 2; Lu.
Pred. No. 6.2e+02;
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                                                                                                       Production and Use of
                                                                                       Ligands
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TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 5
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 5, Application US/08419878B Patent No. 5859206 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                               APPLICANT: Vandlen, Richard L.
APPLICANT: Holmes, William E.
TITLE OF INVENTION: Antibodies S;
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
APPLICATION NUMBER: US/08/419
FILING DATE: 11-Apr-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/330161
FILING DATE: 25-OCT-1994
                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
                                                                                                                  CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 22-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705256
FILING DATE: 24-MAY-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/330161
FILING DATE: 25-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/035430
FILING DATE: 22-MAR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION: TELEPHONE: 415/225-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb :

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                         STREET: 1 DNA "" CITY: South San Francisco
                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
les 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: FILING DATE: 12-MA CLASSIFICATION: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE: California COUNTRY: USA
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                                                                                                                                                                                                                                      94080
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                                                                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 UMBER: US/08/440,401
12-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  44.0%; Score 22; DB 2; Leuyur ---,
42.9%; Pred. No. 6.2e+02;
7. Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                Antibodies Specific For Heregulin 2-alpha
                                                                                              US/08/419,878B
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/0
FILING DATE: 22-MAR-1993
PRIOR APPLICATION DATA:

08/035430

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TOPOLOGY:
US-08-419-878B-5
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REFERENCE/DOCKET NUMBER: P0712C2D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-1994
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: Amino acids
TYPE: Amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 44.0%;
Best Local Similarity 42.9%;
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 31, Patent No. 5
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: 08/011,396
FILING DATE: 29-JAN-1993
PRIOR APPLICATION NUMBER: 07/984,085
FILING DATE: 01-DEC-1992
PRIOR APPLICATION NUMBER: 07/951,747
PILING DATE: 25-SEP-1992
PRIOR APPLICATION NUMBER: 07/951,747
FILING DATE: 25-SEP-1992
PRIOR APPLICATION NUMBER: 07/927,337
FILING DATE: 10-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 04585/017004
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Gwynne, David I.; Marchionni, Mark;
APPLICANT: McBurney, Robert N.
TITLE OF INVENTION: INHIBITORS OF CELL PROLIFERATION,
TITLE OF INVENTION: THEIR PREPARATION AND USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 07/705256
FILING DATE: 24-MAY-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Wordperfect CURRENT APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 184
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE: Mass
STATE: Mass
SIP: 0211-2804
SIP: TRADABLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Boston
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     225 Franklin Street
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Diskette, 5.25 inch, 360 kb storage
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Pred. No.
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6.2e+02;
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Search completed: August 30, 2004, 10:57:11 Job time : 5.55743 secs

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APPLICANT: GOODEARL, ANDREW
APPLICANT: STROOBANT, PAUL
APPLICANT: STROOBANT, PAUL
APPLICANT: WATERFIELD, MICHAEL
APPLICANT: WATERFIELD, MICHAEL
APPLICANT: WATERFIELD, MARK
APPLICANT: HILES, IAN
ITILE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR
ITILE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR
ITILE OF INVENTION PREPARATION AND USE
FILE REFERENCE: 04585/00200B
CURRENT APPLICATION NUMBER: US/08/470,335F
CURRENT FILING DATE: 1995-06-06
EARLIER APPLICATION NUMBER: 08/036,555
EARLIER FILING DATE: 1993-03-24
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 31
LENGTH: 13
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                                              Query Match
Best Local Similarity
Matches 3; Conserve
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                                                                                                                        ; TYPE: PRT ; ORGANISM: Homo sapiens US-08-470-335-31
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US-08-470-335-31
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Best Local Similarity 42...
Thehes 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 31, Application US/08470335F Patent No. 6147190 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7 FCVNGGE 13
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Pred. No.
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1586107 seqs, 282547505 residues
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Listing first 45 summaries
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          AAU81860
AAW32696
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                                                                                                                                     ABG67616
                                                                                                                                                                                                                                                        AAY69922
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                                                                                           Aag68089 Antitumou Abg79076 Human Cyp Abr84374 Human Cyp Adc17702 Cyclophil Aay69963 Human cyc Adc17709 Modified Aay69958 Human cyc Aay69957 Human cyc Aay69957 Human Cyc Aay69951 Human Cyc Aay69951 Human Cyc Abg67616 Human ADP Ada23735 Alzheimer Aay69961 Human cyc Aar72947 E. coli P Aar72947 E. coli P Aar72903 E. coli P
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Ada18540
Abu08824
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Aab46931 Human cyc
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AAY09051	ADE84662	AAB12089	AAY09052	AAG98171	AAU78392	AAM22987	AAY51905	AAR20729	ABR75514	AAU68401	AAU68410	AAB44921	AAW21441	0	AAR72949	AAR72894	AAR72938	ABU08827	ADA18539
Aay09051 BSP-bind		2089	Aay09052 Syntheti		Aau78392 Biosurfa			Aar20729 Pancre	Abr75514 Liver	Aau68401 Human	Aau68410 Human	Aab44921 Human	Aaw21441 HSV glyc	•	4	٠	2938 王.	27	8539

ALIGNMENTS

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AAY69922;
                   This sequence represents a cyclophilin B peptide of the invention. peptides are tumour antigen peptides derived from cyclophilin B, the recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The peptides are used for the treatment and diagnosis of tumours
                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                  11-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                              AAY69922 standard; peptide; 9 AA.
Sequence 9 AA;
                                                                           Claim 4; Page 49; 64pp; Japanese.
                                                                                                Tumor antigen peptides derived from diagnosis of tumors.
                                                                                                                                  WPI; 2000-116932/10.
                                                                                                                                                        Itoh K,
                                                                                                                                                                                                               25-JUN-1998;
                                                                                                                                                                                                                                     24-JUN-1999;
                                                                                                                                                                                                                                                           29-DEC-1999.
                                                                                                                                                                                                                                                                                WO9967288-A1
                                                                                                                                                                                                                                                                                                                          Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL; HLA antigen; diagnosis; tumour; therapy.
                                                                                                                                                                                                                                                                                                                                                             Human cyclophilin B peptide fragment #2
                                                                                                                                                                             (SUMU ) SUMITOMO PHARM CO LTD. (ITOH/) ITOH K.
                                                                                                                                                        Gomi S;
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                                                                                                                                                                                                                                     99WO-JP003360
                                                                                                             cyclophilin B for treatment and
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Query Match Best Local S Matches 9

Similarity
9; Conser

100.0%; Score 50; DB 3; ilarity 100.0%; Pred. No. 1.4e+06; Conservative 0; Mismatches 0;

Length 9; Indels

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Matches
17-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention describes the novel use of interferons (IFNs) or DNAs capable of expressing the interferons and/or antigenic proteins (AP), antigenic peptides derived from the proteins or DNAs capable of expressing the antigenic proteins or peptides, in the manufacture of an agent for induction of antigen-specific T cells. The products of the invention have virucide and cytostatic activity and can be used for gene therapy or as inducers of antigen-specific T cells. The action of interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic T cell (CTL) by administering an antigenic peptide in an incomplete Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or DNA encoding IFNs) are useful in the manufacture of a medicament for inducing antigen-specific T cells in an individual who has been administered with AP (or DNA encoding AP) or vice versa. The medicament is useful for the treatment or prophylaxis of a tumor or a viral
                                                        AAG68089;
                                                                                                                   AAG68089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 9 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Use of antigenic proteins, peptides, interferon or their encoding the manufacture of an agent for the induction of antigen-specific
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cyclophilin B derived tumor antigenic peptide SEQ
                                                                                                                                                                                                                                                                                                                                                                                    Similarity 9; Conserv
                                                                                                                standard;
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ilarity 100.0%;
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Pred. No. 1.4e+06;
Mismatches 0;
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Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes peptides recognising cancer cells with tumour specific cytotoxic T lymphocytes (CTL). The peptides recognising cancer cells with tumour specific CTLs are selected from: (1) peptides of sequences (AAG68066 to AAG68069); (2) peptides containing the above mentioned sequences; (3) peptides having 70 % or more of homogeneity with the above mentioned sequences, and (4) peptides with one or more deleted, substituted, added or inserted amino acid(s) of the above mentioned sequences, particularly those having recognising property due to HLA-A2402 binding CTL, especially having at least 5 amino acids, used for medicine, particularly anticancer agents, derived from antitumour antigenic peptides of lck, src family, SART-1, SART-3 or cyclophilin B genes. The antitumour peptides have cytostatic activities. The peptides are used for the treatment of cancer.
                                                              lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; leukaemia; Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer; kidney cancer; adenocarcinoma; breast cancer; prostate cancer; kidney cancer; pancreatic cancer; epitope; vaccine; dendritic cell; ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell; tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New peptides for recognizing cancer cells with tumor specific cytotoxic lymphocytes and for treating cancer.
                                                   cytostatic;
                                                                                                                                                      Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen
                                                                                                                                                                                                                               15-NOV-2002
                                                                                                                                                                                                                                                                                                 ABG79076 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 8; Page 2; 14pp;
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                                                                                                                                                                                         Human Cyp-B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in cancer patients present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                        DEMIQGGDE
                                                                                                                                                                                          class I HLA widely expressed antigen peptide #2
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   patients. The present sequence represents a peptide from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 50; DB 4;
100.0%; Pred. No. 1.4e+06;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Japanese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 9;
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WO200264057-A2

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RESULT 5
ABR84374
ID ABR8
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XX
AC ABR8
AC ABR8
XX
DT 06-1
XX
DE Huma
XX
Ant:
KW Cann
KW Cann
KW imm
KW hum
XX
PN JP2
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                                                                                                                                                                                                                                                                                                                                                                                S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               contribution features to a composition (1) comprising an immune call and a cell penetrating peptide (CPP) associated with an antigen or comprising (I), CPP associated CC with an antigen, and a pharmaceutically acceptable carrier and (2) preparing a composition for a disease, by providing (I) and CPP associated CPP to (I), where antigen enters into the cell. The antigen CC are, for example, tumour antigen derived epitopes recognised by tumour confiltrating lymphocytes (TIL) of HIA (human leukocyte antigen) class I comprises, by administering a mature dendritic cell comprising CPP associated with an antigen to disease, to the animal, such that following the administration, animal is protected from disease, where the animal comprises both CD4+ and CD8+ T cells. It is also useful for treating a disease (e.g. cancer, tumour, melanoma, thymoma, lymphoma, sarcoma, lung cancer, cervical cancer, bladder cancer, kidney cancer, adenocarcinoma, breast cancer, prostate cancer, bladder cancer, kidney cancer, adenocarcinoma, coreation, chemotherapy or gene therapy. The administration of (I), the cancer treatment including surgery, rediation, chemotherapy or gene therapy. The administration of (I), the cancer treatment. The present sequence is a tumour antigen derived copitope for inclusion in the composition of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antigen or antibody.
                                                                 Antigen specific T-cell; detection; diagnosis; cancer cancer; tumour; cervical cancer; prostate cancer; cell immune therapy; cytostatic; immunostimulant; vaccine; human; human leukocyte antigen; HLA-A24 epitope.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 17; 61pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel composition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002-627577/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-FEB-2001; 2001US-0268687P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15-FEB-2002; 2002WO-US005212.
                                                                                                                                                      Human CypB HLA-A24 epitope, SEQ ID
                                                                                                                                                                                         06-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (BAYU )
                                   Homo sapiens
                                                                                                                                                                                                                                                              ABR84374 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              immune effector
                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BAYLOR COLLEGE MEDICINE
                                                                                                                                                                                                                                                                                                                                                                               DEMIOGGDE
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                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; ilarity 100.0%; Conservative 0;
                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          on for treating a disease in an animal, comprises an cell and cell penetrating peptide associated with an
                                                                                                                                                                                                                                                                                                                                                  w
                                                                                                                                                                                                                                                                                                                                                                                  w
                                                                                                                                                                                                                                                             peptide;
                                                                                                       detection; diagnosis; cancer specific T-cell; cancer; prostate cancer; cellular immunity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a composition
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Pred. No. 1.4e+06;
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                                                                                                                                                         NO:24.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 9;
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                                                                                        antigenic
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                                                                                      peptide;
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RESULT 6
ADC17702
ID ADC1
XX
AC ADC1
XX
AC ADC1
XX
AC Cycl
XX

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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a method for the detection of antigen specific T-cells in a blood sample involving the use of a plurality of antigenic peptides. The method comprises sampling of peripheral blood monocytes; stimulation of the collected peripheral blood monocytes without direct use of antigen presenting cells; and detection of T-cells specific to the antigen in the stimulated monocytes. The method is particularly used for the detection of cancer as it can be used in semi-quantitative determination of cancer specific T-cells. It can also be used for cancer vaccine therapy for patients with cervical or prostate cancer. The method can additionally be used to monitor of cellular immunity and cancer immune therapy by detection of specific T-cell frequencies. Sequences ABR84367-ABR84380 represent HIA-A24 (human leukocyte antigen) peptides of human origin used in an example from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cytostatic; antiallergic;
allergy; epitope; cancer;
cyclophilin B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-SEP-2001; 2001JP-00283413
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                                                                                                                                                                                                                                                                                                                                                                                                             WO2003020306-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cyclophilin B protein amino acids 91-99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADC17702;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADC17702 standard; peptide; 9 AA
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                                                                                                                                                                                                                      29-AUG-2001; 2001JP-00260046
                                                                                                                                                                                                                                                                                    28-AUG-2002; 2002WO-JP008641.
                                                                                                                                                                                                                                                                                                                                                  13-MAR-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                detection method of antigen specific T-cells, comprises the use of lural antigenic peptides, useful in semi-quantitative determination of ancer specific T-cell frequencies and for monitoring cellular immunity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 DEMIQGGDE 9
                                                                                                                                                             HOLI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vaccine; allergic reaction suppressor; antigen;
immunoglobulin E antibody; desensitization;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Japanese.
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Pred. No. 1.4e+06;
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WPI; 2003-300831/29

Itoh K,

Yamada A;

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RESULT 7
AAY69963
ID AAY6
XX AAY6
AC AAY6
AC AAY6
AX Huma
XX Cycl
KW Cycl
KW HLA
OS Homo
XX WO99
PM 29-D
XX 25-J
PF 24-J
XX (SUM
PA (ITO
XX ITO
PT Tumo
PT Tum
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Best Local S
Matches 9
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                                                                                                                                                                                                                   Claim
                                                        This sequence represents a cyclophilin B peptide of the invention peptides are tumour antigen peptides derived from cyclophilin B, recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. peptides are used for the treatment and diagnosis of tumours
                                                                                                                                                                                                                                                                             Tumor antigen peptides diagnosis of tumors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SUMU )
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HLA antigen;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAY69963 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                    7,
                                                                                                                                                                                                                     10;
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Gomi
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                                                                                                                                                                                                                Page 60; 64pp; Japanese
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n; diagnosis; t
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Pred. No. 1.4
0; Mismatches
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                                                                                                                                                                                                                                                                                                              cyclophilin
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. 1.4e+06;
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Sequence 9 AA;

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RESULT 9

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RESULT 8
AAB46947
ID AAB4
XX AAB4
AC AAB4
XX AAB4
AC AAB4
XX Tumo
XX Tumo
XX Tumo
XX Homo
XX EP10
XX EP10
XX EP10
XX 22-0
PF 24-0
PF 24-0
XX Z2-0
PF C4-0
XX Take
XX Tuse
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Best Local (
                                                           Matches
                                                                                                                                                                                                                                 expressing the antigenic proteins or peptides, in the manufacture of an agent for induction of antigen-specific T cells. The products of the invention have virucide and cytostatic activity and can be used for gene therapy or as inducers of antigen-specific T cells. The action of interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic T cell (CTL) by administering an antigenic peptide in an incomplete Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or DNA encoding IFNs) are useful in the manufacture of a medicament for inducing antigen-specific T cells in an individual who has been administered with AP (or DNA encoding AP) or vice versa. The medicament is useful for the treatment or prophylaxis of a tumor or a viral
                                                                                                                                                           Sequence 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               capable of expressing the interferons and/or antigenic proteins (AP), antigenic peptides derived from the proteins or DNAs capable of expressing the antigenic proteins or peptides, in the manufacture of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tumor antigenic peptide; interferon; I virucide; cytostatic; gene therapy; IF viral infectious disease; cyclophilin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 20; 25pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Use of antigenic the manufacture of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention describes the novel use of interferons (IFNs)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Takasu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EP1074267-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAB46947 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB46947;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (SUMU ) SUMITOMO PHARM CO LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cyclophilin
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                                                      Similarity
8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 88. 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DYMIOGGDF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEMIQGGDE
                                                                                                                                                                AA;
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                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000EP-00306263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99JP-00207687.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         c proteins, peptides, interferon or their encoding of an agent for the induction of antigen-specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  derived
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88.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tumor antigenic peptide SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 47; DB 3; L
Pred. No. 1.4e+06;
1; Mismatches 0;
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H
                                                                                   Score 47;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ΑĀ
                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IFN; antigen-specific IFN-alpha; cytotoxic T
                                                    1.4e+06;
0;
                                                                                                           DB 4;
                                                                                                         Length
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                                                           Indels
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                                                           Gaps
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ADC17709
ID ADC1
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PH 13-M
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PH 29-A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to allergic reaction suppressors, comprising a peptide which originates from the same antigenic substance as the antigenic substance inducing the (peptide-originated) allergic reaction, and containing an epitope different from the epitope participating in the induction of the allergic reaction and yet dos not induce the allergic reaction. The desensitizers or allergic reaction suppressors are useful for treating and preventing type I allergic diseases and in cancer vaccines for preventing or treating cancer. The allergic reaction suppressors are also useful for suppressing an allergic reaction or reducing immunoglobulin E antibody production, and for desensitization to antigens. This sequence represents a peptide used in the invention and corresponds to amino acids 91-99 of the cyclophilin B protein with the Phe at position 92 replaced by a Tyr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Desensitizers or allergic reaction suppressors containing peptides originating from the same antigenic substances as reaction-inducing substances, useful for preventing or treating type I allergic diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cytostatic; antiallergic; vaccine; allergic reaction suppressor; antigen; allergy; epitope; cancer; immunoglobulin E antibody; desensitization; cyclophilin B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-300831/29
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-AUG-2001; 2001JP-00260046
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Modified cyclophilin B protein amino acids 91-99.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADC17709;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADC17709 standard; peptide;
                                                                                                                              Human cyclophilin B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-MAR-2003
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   Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL; HLA antigen; diagnosis; tumour; therapy.
                                                                                                                                                                                                                     11-APR-2000
                                                                                                                                                                                                                                                                                                      AAY69958;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ITOH/)
                                                                                                                                                                                                                                                                                                                                                                                       AAY69958 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ITOH K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Yamada A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEMIQGGDE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DYMIQGGDF
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                                                                                                                                                                                                                                                                                                                                                                                       peptide; 9
                                                                                                                              peptide fragment #38
                                                                                                                                                                                                                     entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 47;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 7;
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RESULT 11
AAY69957
ID AAY69
XX AAY69
AC AAY69
AC AAY69
AC AAY69
AX Human
XX Cyclo
KW HLA a
XX HOMO
XX HOMO
XX HOMO
XX YO996
XX GYUMU
PF 24-JU
XX 25-JU
YX (SUMU
PA (ITOH
XX WPI;
XX WPI;
XX WPI;
XX Tumox
PT Tumox
PS Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This sequence represents a cyclophilin B peptide of the invention. peptides are tumour antigen peptides derived from cyclophilin B, the recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The peptides are used for the treatment and diagnosis of tumours
                                                                                                                                                                                                                                                                                     11-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tumor antigen peptides diagnosis of tumors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-116932/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                 Cyclophilin | HLA antigen;
                                                                                                                                                                                                                                                                Human cyclophilin B peptide fragment #37.
                                                                                                                                                                                                                                                                                                                             AAY69957 standard; peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Itoh K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (SUMU )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-DEC-1999
                    Tumor antigen peptides derived from cyclophilin B for treatment and diagnosis of tumors.
                                                    WPI; 2000-116932/10
                                                                                                                           25-JUN-1998;
                                                                                                                                               24-JUN-1999;
                                                                                                                                                                     29-DEC-1999.
                                                                                                                                                                                        WO9967288-A1
                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                           AAY69957;
                                                                        Itoh K,
                                                                                             (SUMU) SUMITOMO PHARM CO LTD (ITOH/) ITOH K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUMITOMO ITOH K.
                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                     DEMIQGGD 8
                                                                          Gomi
                                                                                                                                                                                                                                                                                                                                                                                 DFMIQGGD 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 61; 64pp;
                                                                                                                                                                                                                                 B; human; tumour antigen peptide; cytotoxic; diagnosis; tumour; therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                                           98JP-00178449.
                                                                                                                                               99WO-JP003360.
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                                                                                                                                                                                                                                                                                                                                                                                                                                     88.0%;
100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                          Score 44; DB; Pred. No. 1.4
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 3; L
                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            treatment
                                                                                                                                                                                                                                              T-cell;
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Claim 4;

Page 61; 64pp;

Japanese

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RESULT 12
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                                                    The present invention relates to methods and compositions for the screening, diagnosis or prognosis of Alzheimer's disease (AD) in a subject. The method comprises analysing a sample of brain tissue from a subject by 2D electrophoresis to generate a 2D array of Alzheimer's disease-associated features (ADFs), whose relative abundance correlates with the presence, absence, stage or severity of AD and comparing the abundance of each feature with the abundance of that chosen feature in brain tissue from persons free from AD. The invention also describes Alzheimer's disease-associated protein isoforms (ADPIs) detectable in brain tissue. The methods and compositions of the invention are useful for the screening, diagnosis or prognosis of AD in a subject, for determining the stage or severity of AD in a subject, for identifying a subject at risk of developing AD, or for monitoring the effect of therapy administered to a subject having AD. Antibodies capable of binding to ADPIs are useful for treatment regime. An agent that modulates the treatment or prevention of a medicament for the capable of a given treatment agent that modulates the section of ADPI is useful in the manufacture of a medicament for the capable of a medicament for the capable of a given treatment agent that modulates the section of ADPI is useful in the manufacture of a medicament for the capable of a medicament for the cap
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Matches 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Screening, diagnosis or prognosis of Alzheimer's disease in subject, comprises detecting Alzheimer disease-associated features or Alzheimer disease-associated protein isoforms in brain tissue from the subject.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; Alzheimer's disease; AD; brain t
Alzheimer's disease-associated feature;
Alzheimer's disease-associated protein
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                                 of ADPI is useful in or prevention of AD
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Query Match Best Local S Matches 7

Similarity 7; Conser

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Matches 7
                      The invention relates to a method of screening or diagnosing Alzheimer's disease in a subject. The method is useful for screening, diagnosis or prognosis of Alzheimer's disease in a subject for determining the stage of severity of Alzheimer's disease in a subject, for identifying a subject at risk of developing Alzheimer's disease, or for monitoring the effect of therapy administered to a subject having Alzheimer's disease. The method is also useful in treating vascular dementia, Lewy body dementia, schizophrenia, Parkinson's disease, multiple sclerosis or depression. The inventive method identifies sensitive and specific biomarkers for the diagnosis of Alzheimer's disease in living subjects. It provides therapeutic agents for Alzheimer's disease that works quickly, potently, specifically with fewer side effects. The present sequence represents the amino acid sequence of a Alzheimer's disease-associated protein isoform tryptic peptide.
Sequence 14
                                                                                                                                                                                                                                                                          comparing feature in test
Alzheimer's disease.
                                                                                                                                                                                                                                                                                                     Screening, diagnosis or involves analyzing test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          human; Alzheimer's disease; vascular dementia; Lewy body dementia; schizophrenia; Parkinson's disease; multiple sclerosis; depression Alzheimer's disease-associated protein isoform; ADPI.
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87.5%;
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                                                                                                                                                                                                                                                                                      prognosis of Alzheimer's disease in subject, sample of brain tissue from subject, and st sample with that of person(s) free from
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Pred. No. 3.1;
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RESULT 15
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Matches 7
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                                                                                                                                                                                                                        This sequence represents a cyclophilin B peptide of the invention. peptides are tumour antigen peptides derived from cyclophilin B, the recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The peptides are used for the treatment and diagnosis of tumours
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                                                                                                                                                                                                                                                                                           Tumor antigen peptides derived from cyclophilin B for treatment and diagnosis of tumors.
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         E. coli PPIase-alpha tryptic fragment 4.
                                                                AAR72947;
                                                                                                                                                                                                                                                                         Claim 10; Page 60; 64pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                             (SUMU ) SUMITOMO PHARM CO LTD (ITOH/) ITOH K.
                                                                                  AAR72947 standard; peptide; 14
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/label=
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87.5%;
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25-MAR-2003
29-NOV-1995
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06-OCT-1989;
29-DEC-1989;
19-JUL-1990;
                                                                                                                                                                                                                                                                                                                                                                                              AAR72945-48 are tryptic fragments of E. coli PPIase-alpha (peptidyl prolyl cis trans isomerase). The E. coli PPIase-beta has a single mol. wt. of about 22 kDa and a single isoelectric point of about 9.7. The enzyme catalyses the isomerisation of prolyl peptide bonds in proteins and accelerates the folding of the protein. The inventors are claiming PPIase-beta. (Updated on 25-MAR-2003 to correct PN field.) (Updated on MAR-2003 to correct PR field.) (Updated on 16-OCT-2003 to standardise OS field)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Escherichia coli; protein conformation; PPPIase-alpha; peptidyl prolyl cis trans isomerisation; prolyl peptide bond.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Escherichia coli; (ST 249 strain).
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                                                                                               Escherichia coli; protein conformation; folding; acceleration; pplase-alpha; peptidyl prolyl cis trans isomerase alpha; catalysis; isomerisation; prolyl peptide bond.
                                                                                                                                                                                                                                                                                                                                                                            Sequence 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New E.coli peptidyl prolyl cis trans
the folding of proteins, partic. for
                                                                           Escherichia coli;
                                                                                                                                                                                                           AAR72903;
                                                                                                                                                                                                                                 AAR72903 standard;
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                                 12-APR-1995
                                                                                                                                          coli PPIase-alpha tryptic fragment 4.
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89JP-00344705.
90EP-00307914.
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87.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  isomerase beta - used to accelerate activation of inactive recombinant
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6.9;
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19-JUL-1990;

94EP-00203610.

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RESULT 17
AAU81860
ID AAU81
XX
AAU81
AC AAU81
XX
DT 09-AP
XX
Monsa
XX
Antik
KW cryIp
OS Bacil
OS Synth
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PD 27-D)
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06-OCT-1989;
29-DEC-1989;
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                     Novel antibody useful for detecting foodstuff made from genetically modified organism, combines specifically with synthetic peptides prepared from protease-digested recombinant proteins specific for transgenic
                                                                                                                                          20-JUN-2000;
20-JUN-2001;
                                                                                                                                                                             20-JUN-2001; 2001WO-KR001054.
                                                                                                                                                                                                     27-DEC-2001
                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                           Bacillus thuringiensis
                                                                                                                                                                                                                                                                                    cryIA;
                                                                                                                                                                                                                                                                                                                     Monsanto Bacillus thuringiensis (MonBT) antigenic peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 14 AA;
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the folding
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                                                                                                                                                                                                                          WO200198523-A2
                                                                                                                                                                                                                                                                                               Antibody;
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                                                                                                                    (GDBI-)
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                                                                       2002-122286/16.
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                                                                                                                                                                                                                                                                                    ly; protease clear cryIIIA; insect
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                                                                                                                    BIOTECH
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g of proteins, partic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Katou S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                          2000KR-00033931.
2001KR-00035066.
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89JP-00260244.
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90EP-00307914.
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                                                                                                                                                                                                                                                                                                cleavage map;
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                                                                                                                                                                                                                                                                                     resistance;
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c. for
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                                                                                                                                                                                                                                                                                               modified organism;
                                                                                                                                                                                                                                                                                    plant.
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                                                                                                                                                                                                                                                                                                                       #16
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RESULT 18
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Best Local S
Matches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention describes an antibody which combines specifically with recombinant protein. It is prepared by analysing a protease cleavage map of the recombinant protein expressed in genetically modified organism. Peptides are selected from the same cleavage map and used to create synthetic peptides used for preparing the antibodies. The antibody is useful for detecting a foodstuff (a plant or processed food) prepared from a genetically modified organism which involves reacting the antibody with a foodstuff and confirming an antigen-antibody reaction to distinguish foodstuff prepared from wild-type plant from foodstuff prepared from sentically modified organism. This sequence represents a peptide derived from Bacillus thuringiensis (BT) cryIA and cryIIIA genes, which induce resistance to harmful insects. This peptide is used to create a synthetic peptide for the production of an antibody used to detect BT in insect resistant plants, described in the method of the
                                                                                                                                                                                                                                                       08-NOV-1996;
                                                                                                                                                                                                                                                                                                                                Homo
                                                                                                                                                                                                                                                                                                                                                                    anti thrombotic
                                                                                                                                                                                                                                                                                                                                                                                         Monoclonal anti
                                                                                                                                                                                                                                                                                22-MAY-1997.
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                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                               platelet
                                                                                                                                                                                                                                                                                                                                                                                                                               Human
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                                                                                                                                                                                                                                                                                                                              sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                              platelet
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                   atelet glycoprotein Ib/IX complex epitope; mimotope; al antibody C-34; anti mimotope; binding site; antibo adhesion; aggregation; agglutination; von Willebrand ombotic drug; ristocetin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                              glycoprotein
                                                                                                                                                                                                                                                        96WO-US017882
                                                                                                                                                                                                                                                                                                                                                                 drug;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      entry)
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75.0%;
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Pred. No. 48;
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                             site; antibody;
on Willebrand fa
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                                                                                                                                                                                                                                                                                                                                                                                                      probe;
                                                                                                                                                                                                                                                                                                                                                                               factor;
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The present sequence represents a mimotope which functionally mimics binding site for a monoclonal antibody (MAb) which recognises an epit within the human platelet glycoprotein (gp) Ib/IX complex. More specifically the MAb is C-34. The mimotope peptide can be used for raising antibodies, as probes to search for anti-mimotopes and to neutralise the inhibitory activity of those antibodies which recognis

recognise

an epitope

Claim

3; Page 98; 115pp; English.

also anti-mi to modulate Peptide

ide which mimics human platelet glycoprotein Ib/IX complex epitope -anti-mimotope molecule capable of binding to the peptide and useful odulate platelet adhesion, aggregation or agglutination.

Miller

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Lyle VA;

13-NOV-1995;

95US-00556597

(UYNY) UNIV

NEW YORK STATE RES

WPI; 1997-289227/26.

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RESULT 19
AAW71826
ID AAW71
XX AAW71
XX O8-DE
XX Mimot
KW Mimot
KW Mimot
KW Won W
XX Synth
OS Synth
OS Homo
PN US581
XX (UYN)
XX I7-M
PF 17-M
XX Disc
CC The
CC The
CC anti
CC mole
CC mole
CC to mole
CC to mole
CC aggr
                                                     The present invention provides peptides which functionally mimic a CC binding site for a monoclonal antibody, where the monoclonal antibody recognises an epitope within the human glycoprotein Ib/IX complex. CC Peptides AAW71752 to AAW71832 are mimotopes which are capable of binding to monoclonal antibody C-34. The invention also provides an isolated molecule capable of binding the mimotopes, where the molecule can be an CC antibody, a second peptide, a carbohydrate, a DNA molecule, an RNA CC molecule, or other naturally or chemically synthesised molecules. These collecules are called anti-mimotopes and can act as anti-thrombotic drugs. A method has also been described for modulating the adhesion, CC aggregation, or agglutination of platelets, where the method comprises selecting platelets and exposing them to an anti-mimotope molecule. The exposure affects von Willebrand factor interaction with platelets through CC aggregation, or agglutination of the platelets. The peptide mimotopes
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-0CT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mimotope; monoclonal antibody C-34; human; glycoprotein Ib/IX complex; binding site; platelet epitope; neutralise; aggregation; inhibition; von Willebrand factor interaction; adhesion; agglutination.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mimotope capable of binding to monoclonal antibody C-34 #75.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Miller JL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-MAR-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1998-556458/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Peptides that mimic platelet epitope -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FMIQGGDF 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FVVRGGTF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AA;
                                                                                                                                                                                                                                                                                                                                                                                                              Col 6; 26pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lyle VA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     95US-00406330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              95US-00406330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            peptide; 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            . 0%;
                                                                                                                                                                                                                                                                                                                                                                                                              English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 28; DB
Pred. No. 2.2e
3; Mismatches
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2.2e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 12;
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Query Match

56.0%;

Score

28;

BB 2

Length

12;

RESULT 21 ADA18540 ID ADA18

ADA18540 standard;

peptide; 11

A

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Sequence 12

AA;

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RESULT 20
ABR55548
AC ABR55
AC ABR61
AC AC ABR61
AC CC ABR61
AC CC
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Matches 4; Conserv
                                                                                                                 Matches
                                                                                                                                           Query Match
Best Local (
                                                                                                                                                                                                                                                                        The present sequence represents a peptide, derived from fibrinopeptide A. The specification describes a chimeric protein, based on protein C, which comprises a thrombin-cleavable artificial sequence. This artificial sequence is of a formula given in the specification, and comprises a peptide from fibrinopeptide A, and a thrombin-cleavage site, other than that of the alpha-chain of fibrinogen. The chimeric protein and serine protease derivatives obtained by cleaving the chimeric protein with thrombin, are useful as antithrombotic, antinflammatory, antiapoptotic and profibrinolytic agents, for treatment or prevention of hypercoagulative diseases, e.g. venous and arterial thrombosis; myocardial infarction; pulmonary embolism; reocclusion after angioplasty and alterations in the genes for protein C and thrombomodulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Protein C; thrombin; fibrinopeptide A; serine protease; antithrombotic; antiinflammatory; antiapoptotic; profibrinolytic; hypercoagulative disease; thrombosis; myocardial infarction; pulmonary embolism; reocclusion; angioplasty; thrombomodulin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New chimeric protein, cleavable by thrombin, antithrombotic agents, particularly modified artificial activation sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-AUG-2003
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                                                                                                                                                                                                                               Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-451127/43.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Le Bonnec B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-OCT-2001; 2001FR-00013492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-OCT-2001; 2001FR-00013492
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Amino acid sequence of a fragment of fibrinopeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (INRM ) INSERM INST NAT
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                                                1 DEMIQGG
1 DFLAEGG
                                                                                                              4;
                                                                                                                                                similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FVVRGGTF
                                                                                                                                                                                                                                  AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page
                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Marque
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9; 51pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ထ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PΕ,
                                                                                                                                           54.0%;
57.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Louvain V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 2.26
3; Mismatches
                                                                                                                                         Score 27; I
Pred. No. 2.
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                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          No. 2.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Calmel C,
                                                                                                                                              DB 6;
2.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              useful e.g.
protein C co
                                                                                                                                                                        Length 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bianchini
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RESULT 22
ABU08824
ID ABU0
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AC ABUC
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AC ABUC
XX
AC ABUC
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AC Alph
CE Alph
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KW Prot
KW Prot
KW bion
XX
OS Homc
XX
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Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                      The invention relates to a biopolymer marker useful in indicating at least one particular disease state. This marker is characterised as alpha fibrinogen having a molecular weight of 1077 Daltons and is useful for indicating a disease state, in particular myocardial infarction. The marker sequences are useful as antigens in immunoassays for the detection of those individuals suffering from the disease known to be evidenced by the marker sequence. The marker provides an efficient diagnostic tool for rapidly and accurately diagnosing disease states such as myocardial infarction. The marker was detected by the technique of surfaces enhanced for laser desorption/ionisation (SELDI) mass spectroscopy. The present sequence is the alpha fibrinogen marker peptide.
            Homo sapiens
                                 biomarker;
                                                                   Alpha
                                                                                                               ABU08824;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel biopolymer marker myocardial infarction.
                                             Proteomic;
                                                                                         25-AUG-2003
                                                                                                                                     ABU08824 standard;
                                                                                                                                                                                                                                                                                      Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-219986/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Jackowski G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (MARS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-APR-2001; 2001US-00846342.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-APR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      surfaces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (JACK/)
                                                                                                                                                           22
                                                                  fibrinogen peptide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   fibrinogen;
ces enhanced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      alpha fibrinogen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THATCHER B.
MARSHALL J.
YANTHA J.
                                                                                                                                                                                                                                          Similarity 57. 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VREES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JACKOWSKI G.
                                                                                                                                                                                                                   DEMIQGG 7
                                                                                                                                                                                             DFLAEGG
                                 human; physiological condition; analyte; alpha fibrinogen; myocardial infarction;
                                                                                                                                                                                                                                                                                      AA;
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                                                                                        (first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Thatcher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human; myocardial infarction; SI for laser desorption/ionisation
                                                                                                                                     peptide;
                                                                                        entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                    54.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                 English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  useful
                                                                  #1, used for myocardial infarction diagnostics.
                                                                                                                                                                                                                                        Score 27; DB Pred. No. 3e+0
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Marshall
                                                                                                                                      <u>1</u>2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  in
                                                                                                                                      A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  indicating
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                                                                                                                                                                                                                                                   DB 6;
3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Yantha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  disease
                                                                                                                                                                                                                                                              Length 11;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SELDI; mass spectrometry;
                                                                                                                                                                                                                                           Indels
                                 biopolymer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  state, in
                                                                                                                                                                                                                                         <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 particular
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RESULT 23
ABU09252
ID ABU09
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AC ABU09
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DT 24-JU
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DE Human
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Human
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Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   development and progression of abnormal physiological conditions. The method comprises isolating one or more patient specific proteomic materials from a sample and comparing it against a library of proteomic materials having characteristics identifiable with both normal and abnormal physiological conditions or their predictive hallmarks. The method is useful for determining a proteomic basis for development and progression of abnormal physiological conditions. The method is also useful for evaluating samples containing several analytes/biopolymers for the presence of physiological condition specific sequences. The peptide presented is a biomarker from alpha fibrinogen and is associated with
                                                                                                                            30-APR-2001;
                                                                                                                                                                                 31-OCT-2002
                                                                                                                                                                                                                                                                                                                                     Kuman; alpha fibrinogen; renal failure; Syndrome X; insulin resistance;
dyslipidaemia; hypertension; obesity; non-insulin dependent diabetes.
                                                                                                                                                                                                                                                                                                                                                                                                                Human alpha fibrinogen peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 12 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                myocardial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention discloses a method for determining a proteomic basis for development and progression of abnormal physiological conditions. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Determining proteomic basis e.g. basis predicting development and/or progressi conditions based upon the presence of p
                                                                             30-APR-2001; 2001US-00845725
                                                                                                                                                                                                                                  US2002161185-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI;
(JACK/) JACKOWSKI G. (THAT/) THATCHER B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABU09252 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Jackowski G,
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(YANT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JACK/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4.
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DFLAEGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
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57.1%;
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Pred. No.
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∮.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a biopolymer marker useful for indicating at least one particular disease state e.g. renal failure. The biopolymer marker is useful for developing diagnostic test to identify asymptomatic patients before they suffer an irreversible event. The biopolymer marker enables a diagnostician to gain the ability to characterise either the presence or absence of the at least one disease state relative to the recognition of the presence or absence of the biopolymer. The marker may be of particular use in early diagnosis of Syndrome X, a multi-faceted disease characterised by insulin resistance, dyslipidaemia, hypertension, obesity and non-insulin dependent diabetes. The present sequence is the biopolymer marker of the invention being a peptide derived from human alpha fibrinogen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel biopolymer marker useful for indicating a peg. renal failure, comprises a peptide sequence
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                                                                                                                                                                                                                                                                                                                                           Alpha fibrinogen
Determining proteomic basis e.g. basis for diagnosing existence of predicting development and/or progression of abnormal physiological conditions based upon the presence of proteomic materials.
                                                                                                                                                                                                     30-APR-2001; 2001US-00846330
                                                                                                                                                                                                                                                                                                       biomarker; alpha
                                                                                                                                                                                                                                                                                                                                                                                             ABU08825;
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                                                                                                                                                                                                                                                                                                                   Proteomic; human;
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                                                                            Jackowski
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                                                                                                              JACKOWSKI G.) THATCHER B.
) MARSHALL J.
) YANTHA J.
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YANTHA J.
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                                                                                                                                                                                                                                                                                                                                                                                                                     peptide; ·13
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                                                                            Marshall J,
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e of 12 amino-acids.
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RESULT 25
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XX Human
XX Homo
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XX Homo
XX GACK
PR 30-AP
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Best Local 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; alpha fibrinogen; renal failure; myocardial infaunstable angina; matrix assisted laser desorption-time
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(THAT/)
(MARS/)
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                                                                                                                                                                      Claim 1;
                                                                                                                                                                                                                                          molecular weight, useful in i
                                                                                                                                                                                                                                                                                                                     WPI; 2003-255194/25
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THATCHER B.
MARSHALL J.
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VREES T
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DFLAEGG
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                                                                                                                                                                      Page 7; 10pp; English.
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Pred. No. 3.6e-
2; Mismatches
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3.6e+02;
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The invention relates a biopolymer marker such as alpha fibrinogen has a molecular weight of about 1350 daltons and a sequence appearing as ABG76139 useful in indicating at least one particular disease state. presence of the peptide in a sample is determined by matrix assisted laser desorption-time of flight (MALDI-TOF) mass spectroscopy. The mais useful for indicating at least one particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such a second control of the particular disease state such as a second control of the particular disease state such as a second control of the particular disease state such as a second control of the particular disease state such as a second control of the particular disease state such as a second control of the particular disease state such as a second control of the particular disease state such as a second control of the particular disease state such as a second control of the particular disease state such as a second control of the particular disease state such as a second control of the particular disease state such as a second control of the particul

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Best Local :
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                                 The invention relates to a biopolymer marker useful in indicating at least one particular disease state. This marker is characterised as alpha fibrinogen having a molecular weight of 1077 Daltons and is useful for indicating a disease state, in particular myocardial infarction. The marker sequences are useful as antigens in immunoassays for the detection of those individuals suffering from the disease known to be evidenced by the marker sequence. The marker provides an efficient diagnostic tool for rapidly and accurately diagnosing disease states such as myocardial infarction. The marker was detected by the technique of surfaces enhanced for laser description/ionisation (SELDI) mass spectroscopy. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                myocardial infarction or renal failure (e.g. in a patient presenting unstable angina). The biopolymer marker is useful as antigen in immunoassays for the detection of those individuals suffering from the disease known to be evidenced by the marker sequence. The biopolymer marker rapidly and accurately diagnoses a disease state such as myocardial infarction or renal failure, and allows physicians to ider asymptomatic patients before they suffer from the disease state. The present sequence is an alpha fibrinogen biopolymer marker
                                                                                                                                                                           Disclosure; Fig 1; 10pp;
                                                                                                                                                                                                                                             WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alpha fibrinogen; surfaces enhanced
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                                                                                                                                                                                                                    biopolymer marker
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THATCHER B.
MARSHALL J.
YANTHA J.
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                                                                                                                                                                                                                                                                     Thatcher
                       detected alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human; myocardial infarction; SELDI; mass spectrometry; for laser desorption/ionisation.
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57.1%;
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2; Mismatches
                      fibrinogen marker
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                     spectroscopy.
rker peptide.
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RESULT 28 AAR72936

Sequence

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RESULT 27
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Best Local
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Matches
                                                                                                                           development and progression of abnormal physiological conditions. The method comprises isolating one or more patient specific proteomic materials from a sample and comparing it against a library of proteomic materials having characteristics identifiable with both normal and abnormal physiological conditions or their predictive hallmarks. The method is useful for determining a proteomic basis for development and progression of abnormal physiological conditions. The method is also useful for evaluating samples containing several analytes/biopolymers for the presence of physiological condition specific sequences. The peptide presented is a biomarker from alpha fibrinogen and is associated with
                                                                                             Sequence 14 AA;
                                                                                                                                                                                                                                                                       Disclosure; Page 10; 25pp; English.
                                                                                                                                                                                                                                                                                                         Determining proteomic basis e.g. basis for diagnosing predicting development and/or progression of abnormal
                                                                                                                                                                                                                                                                                                                                                                 Jackowski G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Proteomic;
biomarker;
                                                                                                                                                                                                                                                The invention discloses a method for determining
                                                                                                                                                                                                                                                                                               conditions
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                                                                                                                                                                                                                                                                                                                                                                                                                 (JACK/)
(THAT/)
(MARS/)
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                                                          Score 27;
Pred. No.
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                                                                    Length 14;
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29-NOV-1995
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the
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                                                                                                                                                                                                                                                   AAR72937-42 are cyanogen bromide cleavage fragments of E. coli PPIasebeta (peptidyl prolyl cis trans isomerase). The E. coli PPIasebeta has a single mol. wt. of about 20 kDa and a single isoelectric point of about 5.0. The enzyme catalyses the isomerisation of prolyl peptide bonds in proteins and accelerates the folding of the protein. The inventors are claiming a PPIasebeta. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PR field.) (Updated on 25-MAR-2003 to standardise OS field)
                                                                                                                                                                                                                                   Sequence 9 AA;
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Escherichia coli; protein conformation; pplase-alpha; peptidyl prolyl cis trans
                             E. coli PPIase-beta
                                                                                                        AAR72894 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                          (TOFU ) TONEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             coli PPIase-beta cyanogen bromide cleavage fragment
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89JP-00260244.
89JP-00344705.
90EP-00307914.
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                            cyanogen bromide cleavage fragment
                                                 entry)
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                                                                                                                                                                                                                                                                                                                                                                       isomerase beta - used to accelerate activation of inactive recombinant
                                                                                                                                                                                          1.4e+06;
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folding; acceleration;
isomerase alpha; catalysis;
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  19-JUL-1989;
06-OCT-1989;
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19-JUL-1989;
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25-MAR-2003
29-NOV-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Escherichia coli; (ST 249 strain)
                        Escherichia coli; protein conformation; PPTase-alpha; peptidyl prolyl cis trans isomerisation; prolyl peptide bond.
                                                                                                                                                                                                                                                                                                                                                             Sequence 9 AA;
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the folding of proteins, partic.
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Escherichia coli; (ST 249 strain)
                                                                              E. coli PPIase-alpha cyanogen bromide cleavage fragment
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artic. for
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Pred. No. 1.4e+06;
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                                      folding; acceleration;
isomerase alpha; catalysis;
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89JP-00184738 89JP-00260244

94EP-00203612

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RESULT 31
AAR72905
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              New E.coli F
                                                                             WPI; 1995-140755/19
                                                                                                                     Hayano
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90EP-00307914
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eins, partic.
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                                                                                                                   Takahashi
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                  isomerase activation
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. 4.1e+02;
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n of inactive
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                  to accelerate recombinant
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                                                                                                                     Query Match
Best Local S
Matches 5
                                                                                                                                              alpha (peptidyl prolyl cis trans isomerase). The E. coli PPIase-alpha has a single mol. wt. of about 22 kDa and a single isoelectric point of about 9.7. The enzyme catalyses the isomerisation of prolyl peptide bonds in proteins and accelerates the folding of the protein. The inventors are claiming the PPIase-alpha. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PR field.) (Updated on 16-CCT-2003 to standardise OS field)
                                                                                                                   Sequence 10 AA;
                                                                                                                                                                                                                                                     AAR72905-08 are
                                                                                                                                                                                                                                                                                    Example
                             4 IQGGDF
                                                         Similarity 5; Conserv
                                                                                                                                                                                                                                                                                    7;
IQGGGF
                                                                                                                                                                                                                                                                                  Page
                                                          Conservative
                                                                                                                                                                                                                                                                                    30;
                             ω
                                                                                                                                                                                                                                                     cyanogen
                                                                                                                                                                                                                                                                                   85pp; English
                                                                         52.0%;
83.3%;
                                                                                                                                                                                                                                      bromide cleavage fragments of E. coli PPIase-
is trans isomerase). The E. coli PPIase-alpha has
                                                          Score 26; DB Pred. No. 4.1e 0; Mismatches
                                                                         DB 2;
4.1e+02;
                                                          <u>ب</u>و
                                                                                    Length 10;
                                                          Indels
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                                                         Gaps
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hydroxymethylglutaryl coenzyme A reductase; glucagon precursor; rhesus; gonadoliberin precursor; plasminogen activator inhibitor 2; prorenin; Alzheimer amyloid A4; corticotropin releasing factor binding protein; apolipoprotein E; herpes virus 1 glycoprotein B; HSV1; human; OMVVS; herpes virus 2 glycoprotein B; HSV2; collagenase; apolipoprotein A; Treponema pallidum membrane protein; TMPA; islet amyloid polypeptide; fibroblast MMP1; schistosoma elastase precursor; schistosomin; hepatitis delta antigen; rev protein; HIV; VILV; angiotensinogen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    competitive inhibitor; feedback regulator; synthesis; gastrin precursor; charge; polarity; farnesyl synthetase; plasminogen activator inhibitor 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HSV glycoprotein B derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-JUL-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            oligopeptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     signal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     oligopeptide
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RESULT 32 AAW21441

AAW21441 standard;

peptide;

12

Herpes simplex

WO9519568-A1

20-JUL-1995

12-JAN-1995; 95WO-US000575.

14-JAN-1994; 94US-00182248

(RATH/) RATH

Ξ.

1995-263953/34.

Identifying signal oligopeptide(s) in protein sequence(s) - shown regions of max. hydrophilicity, used in modulating communication protein(s). shown as

Claim Page 63; ; dd88 English

The sequences given in AAW21201-560 represent hydrophilic signal oligopeptides. These signal oligopeptides are localised on the surface of the protein and are represented by the hydrophilicity maxima of the protein. These peptides are enriched in charged amino acids arranged with neutral spacer amino acids. The specific signal character of these oligopeptides is determined by a characteristic combination of conformation and charge

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Query Match
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Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           within the signal sequence. These oligopeptides may be used as vaccines in the treatment of human disease, as competitive inhibitors to prevent or reduce the metabolic action or interaction of a selected protein by blocking its specific signal sequences, or as therapeutic agents to function as feedback regulators to reduce synthesis rate of a selected protein. These peptides may be modified by omitting one or more amino acids at the N- and/or C-terminal, by substituting one or more amino acids without consideration of charge and polarity, by substituting one or more amino acids with amino acid residues with similar charge and/or polarity, by omitting one or more amino acids or a combination of these
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ophthalmological; gene therapy; treatment; autoimmune disease; inf cardiovascular disorder; nervous system disorder; ocular disorder; wound healing; epithelial cell proliferation; skin aging; mental stransplantation; metabolism modulation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Secreted protein; human; immunosuppressive; antiarthritic; antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; fungicide; ophthalmological; gene therapy; treatment; autoimmune disease; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human secreted protein encoded by gene 5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 12 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAB44921 standard;
 for gene therapy.
medical condition
dogs, chickens or
                                              vasotropic, cereural removide, fungicide and
                                                           encoding nucleic acid molecule (II) which have immunosuppressive, antiarthritic, antirheumatic, antiproliferative, cytostatic, cardiant, vasotropic, cerebroprotective, nootropic, neuroprotective, antibacterial, virucide, fungicide and ophthalmological activity and which can be used
                                                                                                                                                                                                                                        Isolated human secretory proteins, nucleic acids encoding them and antibodies directed against them, useful for diagnosing and treating disorders related to the proteins such as cancer, Alzheimer's disease
                                                                                                                                                                                                                                                                                                                      WPI; 2000-656008/63.
N-PSDB; AAC79902.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-MAR-1999;
03-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-MAR-2000; 2000WO-US006042.
                                                                                                                                                                                Claim 11; Page 382;
                                                                                                                                                                                                                                                                                                                                                                                                                           (HUMA-) HUMAN GENOME
                                                                                                                                                                                                                                                                                                                                                                                    C₽,
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4; Conserva
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EGGDF 8
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                                                                                                                    describes a novel isolated polypeptide (I) and ic acid molecule (II) which have immunosuppressi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                99US-0124143P.
99US-0168663P.
                                                                                                                                                                                                                                                                                                                                                                                    MS,
(I) and (II) are used to prevent, treat or ameliorate a
in e.g. humans, mice, rabbits, goats, horses, cats,
sheep. (I) and (II) are also used in diagnosing a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein;
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80.0%;
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                                                                                                                                                                              English.
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Pred. No. 4.9e+02;
1; Mismatches 0
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RESULT 34
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ACC AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pathological condition or susceptibility to a pathological condition. The antibodies to (II) can also be used in alleviating symptoms associated with the disorders and in diagnostic immunoassays e.g. radioimmunoassays or enzyme linked immunosorbent assays (ELISA). Disorders which are diagnosed or treated include autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. neoplasms of the breast or liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                Identifying proteins for clinical screening, diagnosis and preast cancer, comprises detecting Breast Cancer-Associated Isoforms (BPIs) using two-dimensional electrophoresis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-MAR-2000;
24-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; Breast cancer-associated protein isoform; breast cancer; immunogen; cytostatic; BPI; tryptic digest peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human Breast cancer-associated protein isoform,
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                                                                                                                                                                                                                                                                                                                    WPI; 2001-611532/70.
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                                                                                                                                                                                                                                                                                                                                                                                                                                             OXFORD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000GB-00006695.
2000GB-00007265.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2001WO-GB001219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                  O'hare MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                             GLYCOSCIENCES
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62.5%;
                                                                                                                                                                                                                                                                                                                                                                                  Page MJ, Parekh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 26; DB Pred. No. 4.9e
                                                                                                                                                                                                                                                                                                                                                                                                                                             UK LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 3;
4.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 12;
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The invention relates to diagnosing, or identifying the risk of a subject cancer), or monitoring the effect of

determining the stage or severity, developing cancer (especially breast therapy on a subject with cancer,

Claim

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Page

51; 197pp;

English

us-09-720-469a-2.aug30.rag

Page 16

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comprising analysing a test sample using two-dimensional electrophoresis and detecting Breast Cancer-Associated Protein Isoforms (BPIs). The methods disclosed are used for the diagnosis and prognosis of breast cancer, for determining the severity of breast cancer, and for identifying a subject at risk of developing breast cancer, and monitoring the effect of therapy administered to a subject. Antibodies raised against the binding domain of a BPI, the binding domain of a BPI, a nucleic acid encoding a BPI, or a nucleic acid that inhibits the function of a BPI can be incorporated into a pharmaceutical composition for treating or preventing breast cancer. The methods use sensitive and specific biomarkers provide early diagnosis of breast cancer, and the compositions are more potent, specific, and has a more rapid effect with fewer side effects that other prior art methods. The present sequence is a tryptic digest peptide from a BPI of the invention

Human Breast cancer-associated protein isoform, BPI-357

peptide

Breast

cytostatic;

cancer-associated protein isoform; breast cancer; tostatic; BPI; tryptic digest peptide.

16-JAN-2002

(first entry

AAU68401 standard; peptide; 14

20-MAR-2001; 2001WO-GB001219

20-MAR-2000; 2000GB-00006695. 24-MAR-2000; 2000GB-00007265.

(OXFO-) OXFORD GLYCOSCIENCES UK LTD

Herath HMAC, 0'hare ۲<u>.</u> Page MJ, Parekh RB, Waterfield

Identifying proteins for clinical screening, diagnosis and prognosis breast cancer, comprises detecting Breast Cancer-Associated Protein

electrophoresis

cancer, comprises detecting proms (BPIs) using two-dimensional

Claim 9; 51; 197pp; English.

RESULT 35
AAU68401
ID AAU68
XX
AC AAU68
XX
Human
XX
Homo
XX
Homo
XX
PPN W020C
XX
PP 20-Mp
PF 20-Mp
PF 24-Mp
XX
PF 24-Mp
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PF 24-Mp
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COXFC
XX
The incomp
CC Compicance
CC Co The invention relates to diagnosing, determining the stage or severity, or identifying the risk of a subject developing cancer (especially breast cancer), or monitoring the effect of therapy on a subject with cancer, comprising analysing a test sample using two-dimensional electrophoresis and detecting Breast Cancer-Associated Protein Isoforms (BPIs). The methods disclosed are used for the diagnosis and prognosis of breast cancer, for determining the severity of breast cancer, and for identifying a subject at risk of developing breast cancer, and monitoring the effect of therapy administered to a subject. Antibodies raised against the binding domain of a BPI, a nucleic acid encoding a BPI, or a nucleic acid that inhibits the function

> 5 88888888888888 Matches Query Match of a BPI can be incorporated into a pharmaceutical composition for treating or preventing breast cancer. The methods use sensitive and specific biomarkers provide early diagnosis of breast cancer, and the compositions are more potent, specific, and has a more rapid effect with fewer side effects that other prior art methods. The present sequence is a tryptic digest peptide from a BPI of the invention Sequence 14 AA; Local Similarity DFMIQGGDF Conservative 52.0%; 44.4%; Score 26; DB Pred. No. 5.9e
> 3; Mismatches DB 4; 5.9e+02; 2; Length 14; 0 .. 0

8

ABR75514 standard; peptide; 14

ABR75514;

뮍 S

Matches

Similarity 4; Conserv

Conservative

52.0%;

Score Pred.

Mismatches No.

DB 4, 5.9e+02; 2;

Indels

0

0

Length

DFMIQGGDF 9

Sequence 14 AA;

Biomarker; Liver response-associated 28-AUG-2003 liver response; liver response-associated protein isoform; r response-associated feature; LRF. protein isoform (LRPI) peptide SEQ ID NO:75

WO2003038444-A2

08-MAY-2003

2002WO-US034847

31-OCT-2001; 2001US-0335964P

PFIZER PROD INC.
OXFORD GLYCOSCIENCES UK LTD.

Amacher DE, Fasulo LM, Herath HMAC, Holt gg,

WPI; 2003-430566/40

Screening, diagnosing, staging or identifying subject at risk of developing, liver response, or monitoring effect of therapy on liresponse, by detecting Liver Response-Associated Protein Isoform ipy on liv

Claim 1; Page 57; 256pp; English.

The present invention describes a method (M1) for screening or diagnosing a liver response in a subject, determining the stage or severity of a convergence of the stage of severity of a convergence of the subject at risk of developing convergence of the subject of a convergence of the subject of a convergence of the subject of a convergence of a drug or therapy administered to a subject, involves convergence of a drug or therapy administered to a subject, involves confidency of a convergence of the subject of an uncleotide sequence of the subject of an uncleotide sequence if present, detecting hybridisation, if any, between the probe convergence of the subject of and the nucleotide sequence, and comparing the hybridisation, if any, detected in the above step, with the hybridisation detected in a control convergence of the subject of the probe convergence of the subject of the subject of the probe convergence of the subject of the probe convergence of the subject of the probe convergence of the subject of

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RESULT 37
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 14
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12-MAY-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAR20729;
                                                                                                                                                                                                                                            The amino acid sequence is that of an antigenic peptide of pancreas elastase-1 (E1) which is used to raise antibodies to E1. The antibodies are used in immunoassay kits for qualitative and quantitative analysis E1 for diagnosis and monitoring of chronic and acute pancreatitis, and mucoviscidosis in body fluids or faeces. (Updated on 25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pancreas-elastase-1 antigenic peptide
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                                                                                                                                                                                                                             mucoviscidosis in correct PI field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Obtaining pancreas-elastase-1-specific antibodies - peptide, for diagnosis of acute and chronic pancreat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1992-042541/06.
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                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 5; 5pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                         mucoviscidosis.
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                                         міодор в
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TECH MED-BIO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antibody;
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44.4%;
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Pred. No. 5.9e)
3; Mismatches
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Pred. No. 1.4e+06;
1; Mismatches 1;
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5.9e+02;
2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                podies - using specific pancreatitis and
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RESULT 38
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RESULT 39
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunogenic; pancreatic elastase; diagnosis;
pancreas; pancreatitis; cystic fibrosis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Diagnosing disorders of pancreatic function such as pancreatitis, determining content of all pancreatic elastase isoenzymes in serur
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAY-1999;
Human immunodeficiency virus. Synthetic.
                                                                Cytotoxic T cell lymphocyte; CTL; antihuman immunodeficiency virus; vaccine.
                                                                                                                                                                                                                                                                    AAM22987 standard; peptide; 9
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                                                                                                                                                                              22-OCT-2001
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                                                                                                                                peptide SEQ ID
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Pred. No. 1.4e+06;
1; Mismatches 1
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Matches 5
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                                                               03-AUG-2001;
(HOWA/)
(REID/)
(GANB/)
                                          04-AUG-2000; 2000US-0223065P.
                                                                                     14-FEB-2002
                                                                                                         WO200212271-A2
                                                                                                                                        Misc-difference
                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to identification of cytotoxic T cell lymphocyte (CTL) epitopes (AAM22116-AAM23484) that generate anti-HIV activity. CTL are a major protective mechanism against viral diseases. Antibodies may neutralise extracellular human immunodeficiency virus (HIV) and limit or prevent infection of cells in the host, but CTL will limit viral production by killing the cell. The CTL epitopes are useful in medicine, in the manufacture of vaccines or diagnostic agents
                                                                                                                                                             Misc-difference
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HIV
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31-JAN-2000; 2000US-0179333P
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HOWARD J.
REID G.
GAN B S.
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Pred. No. 1.4e
1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 4; Let.
. 1.4e+06;
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RESULT 41
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel isolated biosurfactant peptide. The CC peptides are used for inhibiting the binding of a pathogen to a collagen receptor and treating an infection in a subject, caused by e.g. CC staphylococcus aureus (e.g. methicillin-resistant - MRSA), S. epidermidis (e.g. methicillin-resistant - VRE), Pseudomonas aeruginosa, Enterococcus faecalis (e.g. vancomycin-resistant - VRE), Bacteroides sp., and also CC fungal, viral and protozoal infections. The peptides are useful for coating implanted surgical devices such as heart valves, artificial veins, joints, stents, tubes, prosthetics, bandages, intravenous lines, catheters, diaphragms and tampons; and are also useful in compositions to combat infectious complication rates associated with the use of surgical implant sites; and for the treatment of infections occurring at wound sites. The peptides inhibit infections around wounds and at the site of invisor. The peptides are derived from human microorganism isolates and CC invisor when administered to humans. The biosurfactant peptide can act capability. The present sequence represents a biosurfactant peptide of the invention
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Best Local :
                                                                                                                                                                                                                                              Human; single nucleotide polymorphism; SNP; angiopoietin; 4-hydroxybutyrate; dehydrogenase; protein therapy; adenosine triphosphate-dependent RNA helicase; major histocompatibility complex Class I histocompatibility antigen; MHC; phosphoglycerate kinase; immunosuppressive; immunostimulatory; antirheumatic; antisclerotic; antidiabetic; antiinflammatory; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                  Human SNP associated peptide SEQ ID NO. 813.
                                                                                                                                                                                                                                                                                                                                                                                                                                     AAG98171;
                                                                  27-DEC-1999;
                                                                                                 27-DEC-2000; 2000WO-US035346
                                                                                                                                                                   WO200148245-A2
                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                   antileukemic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAG98171 standard; peptide; 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 10 AA;
                                                                                                                                                                                                                                                                                                                                                                                                     19-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New isolated biosurfactant peptides useful bacterial infections in a subject.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N
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                                 CURAGEN
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Pred. No.
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6.1e+02;
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The invention relates to nucleic acids (AAH79386-AAH80036) encoding CC polymorphic variants of proteins (AAG98010-AAG98238) related to CC angiopoietin, 4-hydroxybutyrate, dehydrogenase, adenosine triphosphate CC (ATP)-dependent RNA helicase, major histocompatibility complex (MHC) CC class I histocompatibility antign and/or phosphoglycerate kinase. These cc nucleic acid single nucleotide polymorphisms (SNPs) and the encoded CC proteins have potential immunosuppressive, immunostimulatory, cytostatic, antileukemic, neuroprotective and antimicrobial activity and may be useful in gene/protein therapy, vaccines, modulation of the expression CC and activity of proteins related to angiopoietin, 4-hydroxybutyrate, dehydrogenase, adenosine triphosphate (ATP)-dependent RNA helicase, major complex (MHC) Class I histocompatibility antigen and/or phosphoglycerate kinase. Disorders that may be prevented, diagnosed and/or treated by the above methods include multifactorial cdiseases with a genetic component, such as autoimmune diseases (e.g. crheumatoid arthritis, multiple sclerosis, diabetes, systemic lupus erythematosus and Grave's disease), inflammation, cancer (e.g. cancers of the bladder, brain, breast, colon and kidney, leukemia), diseases of the nervous system, an infection of pathogenic organisms. They may also be used to alter phenotypic traits such as longevity, appearance, strength, speed and endurance
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Matches 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 14
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                                                                                                                                                                                                                                                               Bone sialoprotein; osteomyelitis; sept
                                                                                                                                                                                                                                                                                                           Synthetic peptide used in tests
                                                                                                                                                                                                                                                                                                                                           06-JUL-1999
                              Ryden
                                                                                                                                                                                                                                                                                                                                                                                                         AAY09052 standard;
                                                                                                                                         23-SEP-1998;
                                                                                                                                                                                                    WO9916792-A1
                                                                                                          25-SEP-1997;
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OLDBERG
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                                                                                                                                                                                                                                                                 sin; BSP; inhibit; staphylococcal; bacterial adhesion;
septic arthritis; antibiotic resistance; fusion.
                                                                                                          97SE-00003614
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                                                                                                                                                                                                                                                                                                                                                                                                         peptide; 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 4;
8.8e+02;
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a bone sialoprotein (BSP)-derived protein that has ability to inhibit the binding of BSP to staphylococcal cells. The BSP-derived polypeptide has the ability to bind to staphylococcal cells and can be used to inhibit staphylococcal adhesion to tissues or implants. In particular it is useful for inhibiting osteomyelitis and/or septic arthritis. The BSP-derived peptides can be used as alternatives to antibiotics thereby not adding to an increase in staphylococcal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bone sialoprotein (BSP) d and staphylococcal cells.
                                                                                                                                                                                                                                                                                                                                                                          Rb-interacting zinc finger; RIZ; retinoblastoma; heart disease; cell proliferation; cell differentiation; tissue repair; transcription regulator; breast cancer; gene therapy; melanoma; neuroblastoma; leukaemia; Parkinson's disease; Huntingdon's disease; Alzheimer's disease; paralysis; motor neurone disorder; cel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB12089 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antibiotic resistance
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                                                                                                         New PR domain peptides comprising amino acid sequences from, for retinoblastoma-interacting zinc finger, or egl-43 proteins, for regulating gene transcription and controlling cell proliferation differentiation.
                                                                                                                                                                                                                                            18-AUG-1994;
06-MAR-1995;
                                                                                                                                                                                                                                                                                                       30-MAY-2000.
                                                                                                                                                                                                                                                                                                                              US6069231-A.
                                                                                                                                                                                                                                                                                                                                                      unidentified adenovirus.
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17-JAN-2001
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                                                                                   Disclosure;
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95US-00399411.
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                                                                                   English.
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The present sequence is Ad7 cel from Adenovirus. The cel domain is als found in rat retinoblastoma (Rb)-interacting zinc finger (RIZ) protein (AAB12028). RIZ is a nuclear phosphoprotein that acts as a cell differentiation factor. RIZ can modulate cell growth by binding to Rb protein, which is involved in regulating cell proliferation. In additing can act to regulate transcription. RIZ functions to maintain cells

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RESULT 44
ADE84662
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Matches 3
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06-MAR-1995;
18-AUG-1995;
The invention describes a method of reducing growth of a tumour cell having a mutant mammalian retinoblastoma (Rb) protein-interacting zinc finger (RIZ) protein in a subject The method comprises administering a nucleic acid molecule (I) encoding RIZ at or adjacent to tumour site. (I) is administered at the site of the tumour. The method is useful for reducing the growth of a tumour cell e.g. neuroblastoma or melanoma cell having mutant RIZ protein. The method is useful for inducing growth of a cardiac cell or a neuronal cell in a subject, and for effecting normal
                                                                                                                                                                                                                                                                                                                            Reducing the growth of tumor cell having mammalian retinoblastoma protein -interacting zinc finger proteins in a subject, comprises administering nucleic acid molecule encoding RIZ at or adjacent to the site of tumor.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cyrostatic; tumor; gene therapy; retinoblastoma protein-interacting zinc protein; RIZ; neuroblastoma; melanoma; cardiac cell growth inducer; neuronal cell growth inducer; adenovirus; E1A; cel.
                                                                                                                                                                                                                                                                            Example 3;
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                                                                 The invention relates to a bone sialoprotein (BSP)-derived protein that has ability to inhibit the binding of BSP to staphylococcal cells. The BSP-derived polypeptide has the ability to bind to staphylococcal cells and can be used to inhibit staphylococcal adhesion to tissues or implants. In particular it is useful for inhibiting osteomyelitis and/or septic arthritis. The BSP-derived peptides can be used as alternatives to antibiotics thereby not adding to an increase in staphylococcal antibiotic resistance. The present sequence represents a synthetic peptide that can inhibit BSP-binding to staphylococcal cells
                                                                                                                                                                                                                                                                               Ryden
                                               Sequence 9 AA;
                                                                                                                                                                                              Claim
                                                                                                                                                                                                                     Bone sialoprotein (BSP) d and staphylococcal cells.
                                                                                                                                                                                                                                                         WPI; 1999-263687/22.
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          growth control to a tumour cell or causing differentiation of tumour cells. This is the amino acid sequence of an adenovirus crl domain used in a comparison with the cel domain of RIZ protein.
                                                                                                                                                                                                                                                                                                                                            25-SEP-1997;
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  protein search, using sw model
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1: sp_archea:*
2: sp_bacteria:*
4: sp_human:*
4: sp_human:*
6: sp_mammal:*
7: sp_mac:*
8: sp_organelle:*
10: sp_phage:*
11: sp_virus:*
12: sp_virus:*
13: sp_virus:*
14: sp_unclassifi
15: sp_archeap:*
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17: sp_archeap:*
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Gapop 10.0 , Gapext 0.5
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sp_phage:*
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Q86922
Q85718
P700007
Q8CG13
Q9X533
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Q8HUB4
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Q865c9 sus scrofa
Q8n6b2 homo sapien
p83529 lactobacill
Q52837 rhizobium l
p82866 rana pipien
Q9trq7 bos taurus
Q8s2v1 zea mays (m
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Q85718 reovirus (t
p70007 xenopus lae
Q8cg13 mus musculu
Q9x533 escherichia
Q9x534 leclercia a
Q8hub4 anomobryum
Q47059 escherichia
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Q53579 rhodobacter	Q8kh47 enterococcu	Q9qvh3 rattus sp.	Q32704 nicotiana t	Q9gh12 pandorina m	Q25916 plasmodium	isa	Q9un90 homo sapien	sche	omo	cice:	fragar	Q8kse3 enterococcu	lyco	Q29823 homo sapien	oxyt:	trypanosom	Ö	s avian inf	pichia a	O	staph	9	1 potati	08 rattus	1 esche	hu93 k	3 sus £	Q94ir5 pinus radia

RESULT 1 Q865C9 AC Q865 DT 01-J DT 01-J DT 01-J DT Glut OS Sus OC Euka OC Mamm OX NCBI RN [1] RP SEQU RA SUS COX SUS C 멂 Ś Query Match Best Local S Matches 4 Q865C9 PRELIMINARY; PRT; 13 AA. Q865C9; Q865C9; 01-JUN-2003 (TrEMBLrel. 24, Created) 01-JUN-2003 (TrEMBLrel. 24, Last sequence update) 01-JUN-2003 (TrEMBLrel. 24, Last annotation update) 01-JUN-2003 (TrEMBLrel. 24, Last annotation update) Glutamine synthetase (Fragment). Sus scrofa (Pig). Sus scrofa (Pig). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus. NCBI_TaxID=9823; EMBL; AY2 NON TER SEQUENCE SEQUENCE FROM N.A. Kim J.G., Vallet J.L., Christenson R.K.; "Characterization of porcine glutamine synthetase."; Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases. EMBL; AY216477; AAO64254.1; -2 FGYKN 6 9 FQYKN 13 Similarity 4; Conserv 13 AA; Conservative 1555 MW; 43.1%; 80.0%; <u>.</u> Score 22; DB 6; Pred. No. 3e+03; 0; Mismatches 87987A0B71AB6B1A CRC64; Length 13; Indels . •• Gaps

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RESULT 2
Q8N6B2
ID Q8N6
AC Q8N6
DT 01-0
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DE Capa
OS Homo

Q8N6B2 PRELIMINARY; PRT; 12 AA.
Q8N6B2;
01-OCT-2002 (TrEMBLrel. 22, Created)
01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
Capacitative calcium channel protein Trp1 (Fragment).
Homo sapiens (Human).

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RESULT 4
Q52837
ID Q528
AC Q528
DT 01-N
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DE Fixx
OS Rhiz
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OC Rhiz
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RN [1]
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                                                   01-NOV-1996 (TrEMBLrel. 0
01-NOV-1996 (TrEMBLrel. 0
01-JUN-2003 (TrEMBLrel. 2
Fixx protein (10 AA) (Fra
Rhizobium leguminosarum.
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Proteomics 2:765-774(2002).
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SEQUENCE
               Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Rhizobiaceae; Rhizobium/Agrobacterium group; Rhizobium.
NCBI_TaxID=384;
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Drews O., Weiss W.,
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01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Unknown protein from 2D-page (Fragment).
Lactobacillus sanfranciscensis (Lactobacillus sanfrancisco).
Bacteria; Firmicutes; Lactobacillales; Lactobacillaceae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Late pregnancy myometrium;
MEDLINE=22181008; PubMed=12193412;
Yang M., Gupta A., Shlykov S.G., Corrigan B.,
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Mammalia; Eutheria;
NCBI_TaxID=9606;
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NCBI_TaxID=1625;
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01-MAY-2000 (TrEMBLrel.
01-JUN-2002 (TrEMBLrel.
Calcyclin-associated pro
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P82866;
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01-MAR-2001 (TrEMBLrel. 16, La
01-OCT-2003 (TrEMBLrel. 25, La
RNA-binding protein (Fragment)
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Mol. Microbiol. 3:1441-14.
EMBL; X17073; CAA34923.1;
              Bos taurus
                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                               RNA-binding.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Roelvink P.W., Hontelez J.G.J., van Kammen A., van den Bos R.C., "Nucleotide sequence of the regulatory nifA gene of Rhizobium leguminosarum PRE: transcriptional control sites and expression
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STRAIN=PRE;
MEDLINE=90136072; PubMed=2693897;
                          (Fragment).
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- SIMILARITY: TO THE
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inding protein for VCAM-1.";
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3; Conserv
                                                                                                                                                                                                                                          Similarity 3; Conservation
                                                                                                                                                                                                              GYK 5
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                                                                                                                                                                                    GYK 10
                                                                                                                                                                                                                                                                                                                                                       IPR001363; Fetuin.
2S01254; FETUIN_1;
                                                                                                                                                                                                                                                                                                13
13 AA;
Metazoa; Chordata; Craniata; Vertebrata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10 AA;
              (Bovine)
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                                                                                                            PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                               TO THE FETUIN FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                  F:RNA binding; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                epithelium;
lackmon R.H.,
                                                                                                                                                                                                                                                                                                13
1370 MW;
                                                                                                                                                                                                                                   35.3%; L
100.0%; Prr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1037 MW;
                                        protein
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TO THE VCAM-1 5'UTR
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21,
                                                                                                                                                                                                                                          Score 18; DB; Pred. No. 1.5
                                                                                                                                                                                                                                                                                                                                           PARTIAL.
                                       Last sequence update)
Last annotation update)
n peptide L-8, CAP-50=ANNEXIN
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Pred. No.
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                                                                                                                                                                                                                                                                  DB 13;
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1.2e+04;
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                                                                                                                                                                                                                                                        1.5e+04;
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  Euteleostomi;
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Ranidae; Rana
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RESULT 7
Q8S2V1
Q8S2
AC Q8S2
DT Q1-J
DT 01-J
RN [1]
RN
     RESULT Q86922 Q86929 DT 011 DT 011 DT 011 DT 011 DE IIE GN IIE GN
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Best Local S
Matches 3
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Best Local S
Matches 3
                                                                                                                                                                      Q86922;
01-NOV-1996
01-NOV-1998
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Bovidae; B
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Q8S2V1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "SNP frequency, haplotype structure and linkage disequil elite maize inbred lines."; Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases. EMBL; AF498513; AAM18693.1; -. GO; GO:0008168; F:methyltransferase activity; IEA. GO; GO:0016740; F:transferase activity; IEA.
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01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Hydroxymethyltransferase-like protein (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NON_TER
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Kobayashi R., Hidaka H.;
"CAP-50, a newly identified annexin,
fibroblast 3Y1 cells.";
J. Biol. Chem. 267:13498-13504(1992)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Transferase; Methyltransferase.
NON TER 1 1 1
SEQUENCE 14 AA; 1676 MW; 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
STRAIN=cv. C123;
Ching A.S., Caldwell K.S.,
Morgante M., Rafalski J.A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Zea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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MEDLINE=92317074; PubMed=1618851;
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Human cytomegalovirus.
Viruses; dsDNA viruses, no RNA stage; Herpesviridae; Betaherpesvirinae; Cytomegalovirus.
                                                                                                                                                                                                                                                                                                              Q86922
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                                                                                                                                        (Fragment).
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                                                                                                                                                                                                                                                                                                              PRELIMINARY;
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                                                                                                                                                                      Created)
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Pred. No. 1.6e+04;
0; Mismatches 0; Indels
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01-NOV-1996
01-NOV-1996
01-JUN-2002
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01-FEB-1997 (TrEMBLrel. 02, Created)
01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Histone H4-1 (Fragment).
Xenopus laevis (African clawed frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
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Kerry J.A., Sehgal A., Barlow S.W., Cavanaugh V.J.,
Nelson J.A., Stenberg R.M.;
"Isolation and characterization of a low-abundance
the human cytomegalovirus major immediate-early gen
J. Virol. 69:3868-3872(1995).
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01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Reovirus serotype 1 S2 (Fragment).
Reovirus (type 1 / strain Lang).
Viruses, GRNA viruses; Reoviridae; Orthoreovirus.
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SEQUENCE FROM N.A.
MEDLINE=85160855; PubMed=4039007;
Gargiulo G., Razvi F., Ruberti I.,
"Chromatin-specific hypersensitive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=83017877; PubMed=7123853; Gaillard R.K., Li J.K., Keene J.D., Joklik W.K.; "The sequences at the termini of four genes of ti
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EMBL; J02303; AAA47241.1; -.
InterPro; IPR004317; Sigma_1_2.
Pfam; PF03084; Sigma_1_2; 1.
NON_TER 14 14
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                                                                                                                Xenopodinae; Xer
NCBI_TaxID=8355;
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Pred. No. 1.6e+04;
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Pred. No.
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J. Mol. Biol. 181:333-349(1985).
EMBL; M23777; AAA49737.1; -.
PIR; I51432; I51432.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mus musculus (Mouse).
Eukaryota; Metazoa; Ch
Mammalia; Eutheria; Ro
NCBI_TaxID=10090;
                                                                                                              Q9X533;
Q1-NOV-1999 (
Q1-DEC-2001
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Q8CG13;
01-MAR-2003
01-MAR-2003
01-JUN-2003
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SEQUENCE
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MEDLINE=97208220; Pub
Liebert C.A., Wireman
                               SEQUENCE FROM N.A.
                                                             Escherichia coli.
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Escherichia.
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01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Glutamate receptor ionotropic N-methyl D-aspartate-like
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STRAIN=C57BL/6J;
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PubMed=9055422;
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Pred. No.
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Sciurognathi; Muridae;
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Periplasmic
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[3]
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MEDLINE=97208220; PubMed=9055422;
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                                                                                                                                                                                                                                                                                                                             Enterobacteriaceae; Leclercia.
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Bacteria; Proteobacteria;
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MEDLINE=20568355; PubMed=11116334;
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Appl. Environ. Microbiol. 63:1066-1076(1997).
                                                                                               MEDLINE=20568355; PubMed=11116334;
                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                        MEDLINE=98027386; PubMed=9361435; Wireman J., Liebert C.A., Smith T.,
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                                                             ert C.A., Watson A.L., Summ quality of merC, a module ol. Evol. 51:607-622(2000).
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mercuric ion binding protein (Fragment)
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01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
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Pedersen N., Cox C., Hedenas L.;
Pedersen N., Cox C., Hedenas L.;
Submitted (SEP-2002) to the EMBL/GenBank/DDBJ databases.
SMBL; AF546765; AAN62980.1; -.
GO; GO:0009507; C:chloroplast; IEA.
                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.

MEDLINE=83064529; PubMed=6292860;
Charlier D., Piette J., Glansdorff N.;
"IS3 can function as a mobile promoter
Nucleic Acids Res. 10:5935-5948(1982).
EMBL; J01589; AAA23485.1; -.
EMBL; I41138; I41138.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Viridiplantae; Streptophyta;
Bryopsida; Bryidae; Bryales; Bryaceae; I
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bacteria; Proteobacteria;
Enterobacteriaceae; Escher
NCBI_TaxID=562;
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3; Conserv
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3; Conserv
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10 AA;
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(TrEMBLrel. 01, La
(TrEMBLrel. 24, La
thine deacetylase
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                                                                                              33.3%;
ilarity 75.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRELIMINARY;
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1326 MW;
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1181
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Escherichia.
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.. 01, Last sequence upd:
.. 24, Last annotation u
etylase (Fragment).
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                                                                                              Score 17; DB; Pred. No. 1.9e
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Pred. No. 1.8e+04;
1; Mismatches 1
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                                                                                        DB 2; LC.
1.9e+04;
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Q9NL65
AC Q9NL6
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DT 01-OC
DT 01-OC
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GN ASABF
GN ASABF
COC ASCAI
OC 
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Q94IR5
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Q9TTE3
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Matches 3
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Best Local S
Matches 3
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Q94IR5;
Q94IR5;
C1-DEC-2001 (TrEMBLrel. 19, Created)
C1-DEC-2001 (TrEMBLrel. 19, Last sequence update)
C1-DEC-2001 (TrEMBLrel. 19, Last annotation update)
C1-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Nonspecific lipid transfer protein (Fragment).
Pinus radiata (Monterey pine).
Selwaryota; Viridiplantae; Streptophyta; Embryophyta; Tspermatophyta; Coniferopsida; Coniferales; Pinaceae; FMCBI_TaxID=3347;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-OCT-2000
01-OCT-2000
01-OCT-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Ascaris suum asabf-delta gene, exon 2.";
Submitted (JUL-1999) to the EMBL/GenBank/DDBJ
EMBL; AB029815; BAA89496.1; -.

NON_TER 1 1
NON_TER 1 1
SEQUENCE 11 AA; 1187 MW; 8BADD0CD1EAB5861
  Q9TTE3;
01-MAY-2000
01-MAY-2000
01-OCT-2003
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Eukaryota; Metazoa; Nematoda
Ascarididae; Ascaris.
NCBI_TaxID=6253;
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NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Genetic mapping of the lipid transfer protein gene fam: radiata and Pinus taeda."; Submitted (MAR-2001) to the EMBL/GenBank/DDBJ databases EMBL; AY029028; AAK40266.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kato Y
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STRAIN=PRLTP9-ii58055;
                                                                                                         Q9TTE3
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11 AA; 1361 MW;
  (TrEMBLrel. 13, (TrEMBLrel. 13, (TrEMBLrel. 25,
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ilarity 75.0%;
Conservative
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ida; Coniferales; Pinaceae;
Created)
Last sequence upor Last annotation upon the control of th
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Pred. No. 1.9e
1; Mismatches
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Pred. No.
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; Chromadorea; Ascaridida;
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Pinus.
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RESULT 15 Q47059

Q47059; Q47059; Q1-NOV-1996 Q1-NOV-1996 Q1-JUN-2003

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Query Match Best Local S Matches 3

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Query Match Best Local S Matches

SEQUENCE

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RESULT
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NCBI_TaxID=67232;

Chloroplast

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RESULT 20
Q47601
ID Q4760
AC Q4760
DT Q1-NC
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DT Q1-NC
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Best Local S
Matches 4
 Q47601;
01-NOV-1996
01-NOV-1996
01-NOV-1998
C (Fragment)
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Chloroplast.
NON_TER
NON_TER
SEQUENCE 12
                                                                                                            047601
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Pedersen N., Cox C., Hedenas L.
Submitted (SEP-2002) to the EMB
EMBL; AF546786; AAN63001.1; -.
GO; GO:0009507; C:chloroplast;
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01-MAR-2003
01-JUN-2003
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Mammalia; E
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Bryophyta;
Bryopsida; Bryidae; Bryales; Bryaceae; Bryum.
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Q8НU93 ;
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GO; GO:0004601; F:peroxidase activity;
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Bertani G.R., Marklund
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nim. Sci. 77:2855-2856(1999).
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Eutheria;
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                                      (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
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e glutathione-peroxidase-5
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InterPro;
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                                                Transferase;
INIT MET
ACT_SITE
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SEQUENCE
                                                                                                                                                                                                 -!- ENZYME REGULATION: INHIBITED BY 4,4'-DIT
-!- PATHWAY: FIRST AND RATE-LIMITING ENZYME
BIOSYNTHETIC PATHWAY.
-!- SUBUNIT: HOMOTETRAMER (POTENTIAL).
-!- MISCELLANEOUS: ITS OPTIMUM PH IS 7.5.
                                                                                                                                                                                                                                                                         Arch. Biochem. Biophys. 379:307-313(2000).

-!- FUNCTION: CONTROLS THE FLUX OF GLUCOSE INTO THE HEXOSAMINE PATHWAY. MOST LIKELY INVOLVED IN REGULATING THE AVAILABILITY PRECURSORS FOR N- AND O-LINKED GLYCOSYLATION OF PROTEINS.
-!- CATALYTIC ACTIVITY: L-GLUTAMINE + D-FRUCTOSE 6-PHOSPHATE =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] (EC 2.6.1.16) (Hexosephosphate aminotransferase) (D-fructose-6-phosphate amidotransferase) (GFAT) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tao T., Bourne J.C., Blumenthal R.M.;
"A family of regulatory genes associated modification systems.";
J. Bacteriol. 173:1367-1375(1991).
EMBL, M63620; AAA24557.1; -...
                                                                                                                                                                                                                                                                                                                                                                STRAIN=Sprague-Dawley; TISSUE=Live MEDLINE=20358980; PubMed=10898949; Huynh Q.K., Gulve E.A., Dian T.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota;
                                     DOMAIN
                                                                                                                                                                                                                                                                                                                                       amidotransferase from
                                                                                                                                                                                                                                                                                                                                                    "Purification and characterization of glutamine:fructose 6-phosphate
                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Mammalia;
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Enterobacteriaceae; Escherichia.
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                                                                                                   GO:0004360; F:glutamine-fructose-6-phosphate GO:0016740; F:transferase activity; IEA. GO:0006541; P:glutamine metabolism; IEA. GO:0008152; P:metabolism; IEA. erPro; IPR000583; GATase 2.
                                                                                                                                                                           SIMILARITY: STRONG, TO SIMILARITY: THE GATASE
                                                                                                                                                               AMIDOTRANSFERASES
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          R000583; GALAGO ...

10443; GATASE TYPE II; 1.

10 0 0 BY SIMILARITY.

1 1 GLUTAMINE AMIDOTRANSFER

SIMILARITY).
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AA,
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C., Blumenthal R.M.;
1553
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DOMAIN BEL
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1; Mismatches
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Q9BYF9;
01-JUN-2001
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                                                     EMBL; AB045973; I
GO; GO:0005882; (
Keratin.
NON TER
SEQUENCE 9 AA;
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Lee I.-M., Martini M., Marcone C., Zhu S.;
Lee I.-M., Martini M., Marcone C., Zhu S.;
"Classification of phytoplasma strains in the elm yellows group
(16SrV) and proposition of 'Candidatus Phytoplasma ulmi' for the
(16SrV) and proposition of 'Candidatus Phytoplasma
phytoplasma associated with elm yellows and 'Candidatus Phytoplasma
phytoplasma associated with cherry lethal yellowing
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                                                                                                                                                   MEDLINE=21539745; PubMed=11682035; Kagaya M., Kaneko S., Ohno H., Inamura K., Kobayashi K.; "Cloning and characterization of the 5'-flanking region ocytokeratin 19 gene in human cholangiocarcinoma cell ling. Hepatol. 35:504-511(2001).
EMBL; AB045973; BAB40770.1; -.
GO; GO:0005882; C:intermediate filament; IEA.
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Mammalia;
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Eutheria;
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1 19 (Fragment).
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etazoa; Chordata;
theria; Primates;
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MEDLINE=98394975; PubMed=9726851;
Heidrich C., Pag U., Josten M., M
Jung G., Sahl H.G.;
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MEDLINE=93224905; PubMed=8385701;
Miyahara Y., Kawano M., Tsu
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MEDLINE=88130171; PubMed=2829522;
Boursnell M.E., Brown T.D., Foulds I.J., Green P.F.,
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MEDLINE=87111468; PubMed=3027249;
Boursnell M.E., Brown T.D.K., Foulds I.J.,
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Avian infectious bronchitis virus.

Avian positive-strand viruses,
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                                                                                                                                                                                                                                     Hypothetical SEQUENCE 1
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Evers M.E., Huhse B., Titorenko V.I., Kunau W.H., Hartl F.U.,
Harder W., Veenhuis M.;
"Affinity purification of molecular chaperones of the yeast Hopolymorpha using immobilized denatured alcohol oxidase.";
FEBS Lett. 321:32-36(1993).
SEQUENCE 11 AA; 1230 MW; 71872C1779C3372B CRC64;
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Q9S8F0;
01-MAY-2000
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"The trypanosoma brucei GPI-PLC gene is not linked to related genes or to genes showing the same development expression.";
                                                                                                                                                                                                                                                                                                           EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    isoform II from maize.";
Planta 196:295-302(1995).
GO: GO:0004364; F:glutathione transferase activity;
SEQUENCE 12 AA; 1382 MW; C28977F65975B05D CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Euglenozoa;
NCBI_TaxID=5691;
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01-MAY-2000 (TrEMBLrel. 13,
01-DEC-2001 (TrEMBLrel. 19,
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MEDLINE=95322859; Pur
Lay V.J.,
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(TremBLrel. 24, Last annotation update)
S-transferase isoform II (EC 2.5.1.18)
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Mismatches 3
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MEDLINE=96144827; PubMed=8568858;

MEDLINE=96144827; PubMed=8568858;

Beck S., Abdulla S., Alderton R.P., Glynr

Beck S., Abdulla S., Alderton R.P., Glynr

Hosking L.K., Jackson A., Kelly A., Newe

Radley E., Thorpe K.L., Trowsdale J.;

"Evolutionary dynamics of non-coding sec

"Evolutionary dynamics of non-coding sec

region of the human MHC.";

J. Mol. Biol. 255:1-13(1996).

DR EMBL; X87344; CAA60783.1; -.

DR EMBL; X87344; CAA60783.1; -.
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Q7X9Y2;
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Oxytricha trifallax (Sterkiella histriomuscorum)
Eukaryota; Alveolata; Ciliophora; Spirotrichea;
Stichotrichida; Oxytrichidae; Sterkiella.
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Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                                                                                                      PRELIMINARY
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Primates;
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15, Last sequence 25, Last anno
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01,
24,
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(Tomato)
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1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Score 16; DB; Pred. No. 3.4e
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Last sequence update)
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annotation updat
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Newell
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3.4e+04;
2;
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Sanseau
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RESULT
Q8KSE3
ID Q8
AC Q6
DT Q6
OG Q7
OG Q
RESULT 34
Q94IT6
Q94IT
AC Q94IT
D1 Q94IT
D1 Q1-DE
DT Q1-DE
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OS Fraga
OC Sperm
OC sperm
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Best Local S
Matches 2
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Best Local S
Matches 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Werner G., Klare I., Witte W.;
"Multi-resistance gene cluster on a |
Enterococcus faecium.";
Submitted (MAY-2002) to the EMBL/Genl
EMBL; AF516335; AAM77883.1; -.
GO; GO:0046821; C:extrachromosomal DI
GO; GO:0016301; F:kinase activity; II
Kinase; Plasmid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Spermatophyta, Ma
lamiids; Solanale
NCBI TaxID=4081;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q8KSE3;
Q8KSE3;
01-OCT-2002
01-OCT-2002
01-JUN-2003
                                                                  Q94IT6 PRELIMINAL,
Q94IT6;
Q94IT6;
Q1-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Viridiplantae; Streptophyta; Embryo
Spermatophyta; Magnoliophyta; eudicotyledons;
lamiids; Solanales; Solanaceae; Solanum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Phylogenetic Footprinting and Shadowing."; Plant Cell 15:1296-1309(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN=cv. Micro-Tomato;
MEDLINE=22667639; PubMed=12782724;
Hong R.L., Hamaguchi L., Busch M.A., Weigel
"Regulatory Elements of the Floral Homeotic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A. STRAIN=cv. Micro-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
Regulator of anthocyanin biosynthesis pathway (Fragment).
Fragaria nubicola.
Fragaria nubicola:
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Eukaryota; Magnoliophyta; eudicotyledons; core eudicots; rosid
eurosids I; Rosales; Rosaceae; Rosoideae; Fragaria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN=UW786;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=1352;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bacteria;
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13 AA;
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2 (TrEMBLrel. 22,
3 (TrEMBLrel. 24,
protein kinase.
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milarity 75.0%;
Conservative
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Last annotation update)
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Pred.
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No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Embryophyta; Tracheophyta;
edons; core eudicots; aster
                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 2;
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Gene
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RESULT
Q945F2
AC Q945F2
DT Q9

RESULT 36
Q9UJ50
ID Q9UJ5
AC Q9UJ5
AC Q9UJ5
AC Q9UJ5
DT 01-MA
DT 01-JU
DE Latrc
GN LPHH1
OS Homo
OC Eukar
OC Mamma
OX NCBI
RN SEQUF
RX MEDLI
RA White
RT SEQUE
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RT Cance
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Best Local S
Matches 3
          [1]
SEQUENCE FROM N.A.
MEDLINE=99153747; PubMed=10030676;
White G.R.M., Varley J.M., Heighway J.;
"Isolation and characterisation of a hu
"Isolation and characterisation of 1p31.
latrophilin cancer.";
Oncogene 17:
                                                                                                                                                                                                                                                                 Q9UJ50
Q9UJ50;
Q9UJ50;
Q9UJ50;
Q1-MAY-2000
Q1-JUN-2003
                                                                                                                                                                        Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q945F2;
01-DEC-2001 (TrEMBLrel.
01-DEC-2001 (TrEMBLrel.
01-DEC-2001 (TrEMBLrel.
                                                                                                                                                    NCBI_TaxID=9606;
                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A. Rar Rajesh P.N., Gupta V.S., Rar Submitted (SEP-2001) to the EMBL; AF416480; AAL08017.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cicer arietinum (Chickpea) (Garbanzo).

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosideurosids I; Fabales; Fabaceae; Papilionoideae; Cicereae; Cicer.
                                                                                                                                                                                                                                              01-MAY-2000 (TrEMBLrel.
01-MAY-2000 (TrEMBLrel.
01-JUN-2003 (TrEMBLrel.
Latrophilin-2 (Fragment)
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SEQUENCE FROM N.A.
SEQUENCE FROM N.A.

MEDLINE=20225451; PubMed=10760572;
White G.R.M., Varley J.M., Heighway J.;
The "Genomic structure and expression profile of LPHH1
The variably expressed in breast cancer cell lines.";
Biochim. Biophys. Acta 1491:75-92(2000).
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NON TER
SEQUENCE
SEQUENCE FROM N.A.

Tanaka T., Uchiumi T., Hinoshita E., Inokuchi A., Toh S.,

Nomoto M., Kohno K., Kuwano M.;

Nequence analysis and functional characterization of the

"Sequence analysis and functional characterization of the

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transporter/multidrug resistance protein 2 (cMOAT/MRP2) ge
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Sperm;
Howell A.M., Cool D., Hewitt J., Ydenberg B., Smith M.
"Organization and Unusual Expression of Histone Genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pisaster ochraceus (Sea star).
Eukaryota; Metazoa; Echinodermata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           H2B (10 AA)
                                                                                                                                                                                                                                                                                                                                                                                                                                        Plasmodium falciparum.
Eukaryota; Alveolata; Apicomplexa;
NCBI_TaxID=5833;
                                                                                                                                                                                                                       SEQUENCE FROM N.A.

MEDLINE=91164876; PubMed=1706114;

Limpaiboon T., Taylor D., Jones G., Geysen H.M., Saul A.;

"Characterization of a Plasmodium falciparum epitope recognized by monoclonal antibody with broad isolate and species specificity.";

Southeast Asian J. Trop. Med. Public Health 21:388-396(1990).

EMBL; M31305; AAA29645.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pisaster
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Asteroidea; Forcipulatacea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-NOV-1996 (TrEMBLrel.
01-NOV-1996 (TrEMBLrel.
01-DEC-2001 (TrEMBLrel.
Malaria antigen (7H8/2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q25916;
                                                                                                                                                                        SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ter ochraceus.";
1. Evol. 25:29-36(1987).
x05620; CAA29107.1; -.
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                                                     Similarity 2; Conserv
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(TrEMBLrel. 01, Last sequence update)
(TrEMBLrel. 19, Last annotation update)
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                                                                                                                                                                        1415 MW;
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(Fragment).
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Forcipulatida; Asteriidae; Pisa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Last sequence update)
Last annotation updat
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0; Mismatches
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4e+04;
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Q32704
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                                                                SO DEFENDANCE OF THE PROPERTY 
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Query Match
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01-NOV-1996 (TrEMBLrel. 01, C:
01-NOV-1996 (TrEMBLrel. 21, L
01-JUN-2003 (TrEMBLrel. 24, L
NdhB protein (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nozaki H., Misawa K., Kajita T., Kato M., Nohara S., Watanabe M.N "Origin and Evolution of the Colonial Volvocales (Chlorophyceae) Inferred from Multiple, Chloroplast Gene Sequences.";

Mol. Phylogenet. Evol. 17:256-268(2000).

EMBL; AB044506; BAB18432.1; -.

GO; GO:0009507; C:chloroplast; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-MAR-2001 (TrEMBLrel. 16, Cre
01-MAR-2001 (TrEMBLrel. 16, Las
01-JUN-2003 (TrEMBLrel. 24, Las
Photosystem II CP43 apoprotein
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Chloroplast.
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NCBI_TaxID=33099;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids; lamiids; Solanales; Solanaceae; Nicotiana.
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                                                                                                 GO; GO:0009507; C:chloroplast; Chloroplast.
NON_TER 1 1
                                                                                                                                                                                             chloroplastDNA.";
Curr. Genet. 12:247-250(1987).
EMBL; X05881; CAA29303.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
STRAIN=Bright yellow 4; TISSUE=Leaf;
MEDLINE=88210537; PubMed=3329576;
Hayashida N., Matsubayashi T., Shinozaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q32704
                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                    "The gene for the 9kd ] sulfur centers A and B
                                                                                                                                                                                                                                                                                                                                                                       Hiyama T.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=4097;
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H
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11
1140 MW;
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66.7%;
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ein (Fragment).
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1; Mismatches
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RESULT 44
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Q9QVH3;
Q9QVH3;
Q9QVH3;
O1-MAY-2000 (TrEMBLrel. 13, Created)
O1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
O1-JUN-2002 (TrEMBLrel. 21, Last annotation update)
O1-JUN-2002 (TrEMBLrel. 13, Created)
                                                                                                                                                                     SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
STRAIN=TUH2-18, and TUH2-21;
STRAIN=TUH2-18, and TUH2-21;
Dahl K.H., Roekenes T.P., Lundblad E.W., Midtvedt T., Sundsfjord A.;
Under the vancemycin-
"Heterogeneity in horizontal transfer of vanB-type vancomycin-
resistance and molecular evidence for transposition of the vanB2-
resistance and molecular evidence for transposition of the vanB2-
resistance transposon, Tn5382, in clinical Enterococcus faecium
                                                                                                    Submitted (JUL-2000) to the EMBL; AF289473; AAM92720.1; EMBL; AF289474; AAM92721.1; NON TER 12 12 SEQUENCE 12 AA; 1497 MW;
                                                                                                                                                                                                                                                                                                           01-OCT-2002 (TrEMBLrel. 22, Created)
01-OCT-2002 (TrEMBLrel. 22, Last sequen
01-OCT-2002 (TrEMBLrel. 22, Last annota
Putative transposase (Fragment)
Enterococcus faecium (Streptococcus fae
Bacteria; Firmicutes; Lactobacillales;
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Q8KH47;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rat
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InterPro; IPR001990; Granin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=92063871; PubMed=1954895;
Nielsen E., Welinder B.S., Madsen O.
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                                         Score 15; DB 2;
Pred. No. 4.7e+04;
2; Mismatches 2
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Last annotation update)
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l; Mismatches 2;
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Search completed: August Job time : 11.6655 secs
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Q53579
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Q53579;
01-NOV-1996
                                                                                                                                              EMBL; S97551; AAC60405.1; ~.

NON_TER 12 12

SEQUENCE 12 AA; 1627 MW;
                                                                                                                                                                                                        Richter P., Brand M., Drews G.; "Characterization of LHI- and LHI+
                                                                                                                                                                                                                               SEQUENCE FROM N.A.
MEDLINE=92234963; PubMed=1569029;
                                                                                                                                                                                                                                                                              Rhodobacter capsulatus (Rhodopseudomonas capsulata).
Bacteria, Proteobacteria, Alphaproteobacteria, Rhodobacterales,
Rhodobacteraceae, Rhodobacter.
                                                                                                                                                                                              mutants."
                                                                                                                                                                                                                                                                                                                           01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Light-harvesting complex I alpha polypeptide (Fragment).
                                                                                                                                                                                                                                                                   CBI_TaxID=1061;
                                                                                                                                                                                Bacteriol. 174:3030-3041(1992).
                                                              7 SKF
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                                                                                              Similarity 3; Conserv
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Post-processing: Minimum Match 0%
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Listing first 45 summaries
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RS1 ERWCH
FAR9 ASCSU
TKU2 UREUN
CA42 LITCI
TKC2 CALVO
GRAR RANRU
NP1 LYMST
NP4 LYMST
TEMI RANTE
MY14 EISFO
RS19 PPWBP
SMS1 MYOSC
SMS ALLMI
LCK5 LEUMA
SAMP MUSCA
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- 2004 Compugen Ltd
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ORCK_ORCLI
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P83280;

C P83280;

M 28-FEB-2003 (Rel. 41, Created)

P83280;

P83280;

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P83280;

P84280;

P852803 (Rel. 41, Created)

P842804;

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P37086;
01-OCT-1994
01-OCT-1994
15-MAR-2004
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Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Astacidea;
Astacoidea; Cambaridae; Orconectes.
NCBI_TaxID=28379;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE-Abdominal nerve cord;

MEDLINE=93126144; PubMed=1480511;

Stangier J., Hilbich C., Burdzik S., Keller R.;

Stangier J., Hilbich C., Burdzik S., Keller R.;

"Orcokinin: a novel myotropic peptide from the nervous system crayfish, Orconectes limosus.";

Peptides 13:859-864(1992).

-!- FUNCTION: Myotropic peptide, enhances both the frequency amplitude of spontaneous hindgut contractions.

-!- SUBCELDULAR LOCATION: Secreted.

-!- TISSUE SPECIFICITY: Abdominal nerve cord and hindgut.
                                                                                                                                                                                                                                                                                                                                                                       MACRS
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        SEQUENCE, AND MASS SPECTROMETRY.
TISSUE=Eyestalk;
MEDLINE=21107394; PubMed=11179812;
Sithigorngul P., Saraithongkum W.,
Sithigorngul W., Petsom A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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ilarity 75.0%;
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(Rel. 30, Last sequence update)
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NEUT_CAVPO
UC18_MAIZE
SAZA_ONCMY
SAZB_ONCMY
ALL5_CYDPO
NEF_HV1Z8
NEUU_CAVPO
NSK1_SARBU
ESTA_SCHGA
HTF_HELZE
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WA Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J.,

WA Vogel V.W., Zhang Y.-S., Hayes D.K.;

"Primary structure of two neuropeptide hormones with adipokinetic a

"Thypotrehalosemic activity isolated from the corpora cardiaca of hor

"If flies (Diptera).";

L Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).

C -!- FUNCTION: Hypertrehalosaemic factors are neuropeptides that

C elevate the level of trehalose in the hemolymph (trehalose is to

C major carbohydrate in the hemolymph of insects).

C -!- SUBCELLULAR LOCATION: Secreted.

C -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.

R PIR: B33995: B33995:
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  P38496;
01-OCT-1994
01-OCT-1994
01-NOV-1995
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01-JAN-1990 (Rel. 1
01-FEB-1994 (Rel. 2
10-OCT-2003 (Rel. 4
                                                                LOCMI
                                                     LMA1
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MOD_RES 1 1 PYRROLII
MOD_RES 10 10 AMIDATIO
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Tabanus atratus (Horse fly).
Tubaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Eukaryota; Metazoa; Arthropoda; Brachycera; Tabanomorpha; I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Corpora cardiaca; MEDLINE=90046758; PubMed
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c factor (HOTH) (Dipteran
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the FARP (FMRFamide
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PYRROLIDONE CARBOXYLIC ACID.
AMIDATION.
916036786771A9D1 CRC64;
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RESULT 6
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AC P22689;
DT 01-AUG-1991
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CU30_LOCMI
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AC p11735
DT 01-OCT
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OS Locust
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SEQUENCE
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Locusta migratoria (Migratory locust).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta;
Neoptera; Orthopteroidea; Orthoptera; Caelifera; Acridoidea; Acrididae; Oedipodinae; Locusta.
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TISSUE=Male accessory gland;
MEDLINE=91271087; PubMed=2052501;
Paemen L., Tips A., Schoofs L., Proost P., van Damme J., de Loof
"Lom-AG-myotropin: a novel myotropic peptide from the male access
glands of Locusta migratoria.";
Peptides 12:7-10(1991).
-!- FUNCTION: The exact physiological function is still unknown.
myotropic peptide is active on the oviduct and, to a lesser
extent, on the hindgut. Transferred from the male to the fema
during copulation.
-!- TISSUE SPECIFICITY: Male accessory glands.
                                                                                                                                                                                                                                                                                                     MEDLINE=86108304; PubMed=3943519;
Hoejrup P., Andersen S.O., Roepstorff P.;
"Isolation, characterization, and N-terminal sequence cuticular proteins from the migratory locust, Locusta Eur. J. Blochem. 154:153-159(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-OCT-1989 (Rel. 12, Created)
01-OCT-1989 (Rel. 12, Last sequence up
01-NOV-1995 (Rel. 32, Last annotation
Cuticle protein 30 (LM-30) (LM-ACP 30)
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MOD_RES 13 13
SEQUENCE 13 AA; 1368 N
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75.0%;
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Acridomorpha;
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Regul. Pept. 46:81-88(1993).
regul. Pept. 46:81-88(1993).
-!- FUNCTION: Tachykinins are active peptides which excite neurons,
evoke behavioral responses, are potent vasodilators and
secretagogues, and contract (directly or indirectly) many smooth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rana catesbeiana (Bull frog).
Eukaryota; Metazoa; Chordata;
Amphibia; Batrachia; Anura; Ne
NCBI_TaxID=8400;
                                                                                                                                                                                                                                                                                                                                                                                                   28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
FMRFamide-like neuropeptide FLP7 (GYRKPPFNGSIF-amide).
Penaeus monodon (Penoeid shrimp).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eukaryota; Eucarida; Decapoda; Dendrobranchiata; Penaeoidea;
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InterPro; IPR002040; Tachy_Neurokinin.
PROSITE; PS00267; TACHYKININ; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ranatachykinin B
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10-OCT-2003
                                                                                        MEDLINE=21956277; PubMed=11959015;
Sithigorngul P., Pupuem J., Krungkasem C., Longyant Chaivisuthangkura P., Sithigorngul W., Petsom A.;
"Seven novel FMRFamide-like neuropeptide sequences of the giant tiger prawn Penaeus monodon.";
Comp. Biochem. Physiol. 131B:325-337(2002).
-!- SUBCELLULAR LOCATION: Secreted.
-!- MASS SPECTROMETRY: MW=1381.4; METHOD=MALDI.
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MOD RES 10 10 AMIDATI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Biochem.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FAR7_PENMO
P83322;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FAR7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PENMO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -!- SUBCELLULAR LOCATION: Secreted.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kangawa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=94023216;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE=Intestine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE, AND SYNTHESIS
                                                                                                                                                                                                                                                                                    TISSUE=Eyestalk;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                     GO; GO
                                                                                                                                                                                                                                                                                                              SEQUENCE, AND MASS SPECTROMETRY.
                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=6687;
Neuropeptide; Amidation
                                                                                                                                                                                                                                                                                                                                                                                     Penaeidae; Penaeus.
                                                                       -!- SIMILARITY: Belongs to
       family.
GO:0007218; P:neuropeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NE=94023216; PubMed=8210506;
wa K., Kozawa H., Hino J., Minamino N., Matsuo
novel tachykinins in frog (Rana catesbeiana) k
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
3; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10 AA; 1210 MW;
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Last
B).
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Neobatrachia; Ranoidea; Ranidae; Rana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 19; DB 1;
Pred. No. 8.1e+02,
1; Mismatches
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917E556B59D5BAB5 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
                                                                           FARP
                       signaling pathway;
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                                                                         (FMRFamide
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RESULT 8
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                                                                                                                                                                                                                                   RESULT 9

CXL4 CONMR

ID CXL4 CONMR STANDARD; PRT; 13 AA

AC P58810;

DT 28-FEB-2003 (Rel. 41, Created)

DT 28-FEB-2003 (Rel. 41, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

Lambda/chi-conotoxin MrIB (Chi-MrIB).
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Matches
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Best Local S
Matches 3
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P58807;
28-FEB-2003
28-FEB-2003
28-FEB-2003
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Neurotoxin; Toxin; Hydroxylation.
DISULFID 2 11
DISULFID 3 8
MOD RES 10 10 HYDRO
SEQUENCE 11 AA; 1226 MW; 277A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Venom of Conus marmoreus.";

J. Biol. Chem. 275:39516-39522(2000).

-!- FUNCTION: Inhibits the neuronal noradrenaline transporter.

-!- SUBCELLULAR LOCATION: Secreted.

-!- TISSUE SPECIFICITY: Expressed by the venom duct.

-!- MASS SPECIROMETRY: MW=1237.93; MW ERR=0.21; METHOD=Electrospray.

-!- SIMILARITY: Belongs to the chi/lambda-conotoxin family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conus marmoreus (Marble cone).
Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastropoda;
Neogastropoda; Conoidea; Conidae; Conus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Lambda-conotoxins, a new family of conotoxins with unique disulfide pattern and protein folding. Isolation and characterization from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Balaji R.A., Ohtake A
Seow K.T., Bay B.-H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence up
28-FEB-2003 (Rel. 41, Last annotation
Lambda-conotoxin CMTVIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CONMR
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Balaji R.A., Ohtake A., Sato K., Gopalakrishnakone P.,
                                                                                                                                        Conus marmoreus (Marble cone).
Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastrop
Neogastropoda; Conoidea; Conidae; Conus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Venom;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=42752;
MEDLINE=21419681; Pub
Sharpe I.A., Gehrmann
                                                                       SEQUENCE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EQUENCE, SYNTHESIS, AND MASS SPECTROMETRY
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3; Conserv
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س
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12 AA;
                                                                         SYNTHESIS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                           PubMed=11528421;
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                                                                         AND
                                                                           STRUCTURE
   Loughnan M.L.,
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Pred. No. 9.7e
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 18; DB; Pred. No. 1.4:
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31209192EF49D777
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277AAC60B7232B58 CRC64;
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     Thomas L.,
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       Adams D.A.,
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RESULT 11

NXSN PSETE

ID NXSN PSETE

AC P59072;

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DT 28-FEB-2003 (
DT 28-FEB-2003 (
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       ID AC AC DT DT DT DT DE
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FARP_CALSI
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Best Local S
Matches 3
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P38495;
01-OCT-1994 (Rel. 30, Created)
01-OCT-1994 (Rel. 30, Last sec)
01-NOV-1995 (Rel. 32, Last and FMRFamide-like neuropeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Krajniak K.G.;
"The identification and structure-activity relations cardioactive FMRFamide-related peptide from the blue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca; Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyu: Bubrachyura; Portunoidea; Portunidae; Callinectes. NCBI TaxID=6763;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Neuropeptide;
MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nat. Neurosci. 4:902-907(2001).

-!- FUNCTION: Inhibits the neuronal noradrenaline transporter.
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Expressed by the venom duct.
-!- PTM: Exists in two forms, due to cis-trans isomerization a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sapidus."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Peptides 12:1295-1302(1991).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Atkins A.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FUNCTION: Cardioactive SIMILARITY: Belongs to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                family
B-2003 (Rel. 41, Created)
B-2003 (Rel. 41, Last sequence update)
B-2003 (Rel. 41, Last annotation updat
neurotoxin N1 (Alpha neurotoxin) (Fra
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                                                                                                                                                                                                                                                                                                                                                                                     3 GYKNS 7
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the FARP
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277AAC376EAD2B58 CRC64;
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to cis-trans isomerization at
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RESULT 12
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-!- TISSUE SPECIFICITY: Expressed by the venom gland.
-!- MASS SPECTROMETRY: MW=6236; METHOD=Electrospray.
-!- MISCELLANEOUS: LD(50) is 0.84 mg/kg by intravenous injection.
-!- SIMILARITY: Belongs to the snake toxin family.
InterPro; IPR003571; Snake toxin.
PROSITE; PS00272; SNAKE TOXIN; PARTIAL.
Toxin; Neurotoxin; Postsynaptic neurotoxin; Acetylcholine receptor inhibitor; Multigene family.
UNSURE
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NON TEE
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P01371;
21-JUL-1986
21-JUL-1986
10-OCT-2003
                                                                                                                                                                                MOD_RES
SEQUENCE
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                                                                                                                                                                                                                                                                              PIR;
                                                                                                                                                                                                                                                                                                                                            Sakagami Y., Yoshida M., Isogai A., Suzuki A.; "Peptide sex hormones inducing conjugation tube formati compatible mating-type cells of Tremella mesenterica."; Science 212:1525-1527(1981).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cloning, expression and protein charger. J. Biochem. 265:982-989(1999).
-!- FUNCTION: Lethal neurotoxin, bind acetylcholine receptors (nAChR).
                                                                                                                                                                                                       Lipoprotein; Prenylation; Methylation; LIPID 12 12 S-12-hydrome 12 12 METHYLATIO
                                                                                                                                                                                                                                                                                               -I- FUNCTION: Tremerogen A-10 is produced by the a mating-type cells and induces formation of conjugation tubes in a mating-type cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=5217;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Fungi; Basidicmycota; Hymenomycete;
Tremellomycetidae; Tremellales; Tremellaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tremerogen A-10.
Tremella mesenterica (Jelly fungus).
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
Elapidae; Acanthophiinae; Pseudonaja.
NCBI TaxID=8673;
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75.0%;
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Pred. No.
                                                                                                            Score 16; I
Pred. No. 3
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                                                                                                              DB 1;
3.5e+03;
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RESULT 13

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Q48878;
30-MAY-2000
30-MAY-2000
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Gundersen D.E., Lee I.M., Rehner S.A., Davis R.E., Kingsbury D.T.
"Phylogeny of mycoplasmalike organisms (phytoplasmas): a basis fo
their classification.";
J. Bacteriol. 176:5244-5254(1994).
-!- FUNCTION: Protein S19 forms a complex with S13 that binds str
to the 16S ribosomal RNA (By similarity).
-!- SIMILARITY: Belongs to the S19P family of ribosomal proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the European Bioinformatics Institute. There use by non-profit institutions as long as modified and this statement is not removed. U entities requires a license agreement (See htt. or send an email to license@isb-sib.ch).
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Q46228;
                   SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

MEDLINE=94350802; PubMed=8071198;

Gundersen D.E., Lee I.M., Rehner S.A., Davis R.E., Kingsbury D.T.

"Phylogeny of mycoplasmalike organisms (phytoplasmas): a basis fo
their classification.";

J. Bacteriol. 176:5244-5254(1994).

-!- FUNCTION: Protein S19 forms a complex with S13 that binds str
to the 16S ribosomal RNA (By similarity).

-!- SIMILARITY: Belongs to the S19P family of ribosomal proteins.
                                                                                                                                                                                                                                                                                                           LOWBP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HAMAP; MF_00531; -; 1.
InterPro; IPR002222; Ribosomal_S19
PROSITE; PS00323; RIBOSOMAL_S19; P/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Clover proliferation phytoplasma.
Bacteria; Firmicutes; Mollicutes; Acholeplasmatales;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-FEB-2003 (
30S ribosomal
                                                                                                                                                                                      Bacteria; Firmicutes;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ribosomal protein;
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                                                                                                                                                                         choleplasmataceae;
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                                                                                                                                                                                                                              ribosomal
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SWISS-PROT entry
                                                                                                                                                                                                                 OR RPS19
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                                                                                                                                                                                   witches'-broom phytoplasma.
ia; Firmicutes; Mollicutes;
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3; Conserv
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(Rel. 39, Last seq
(Rel. 41, Last ann
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Rel. 41, Last annotation updat
protein S19 (Fragment).
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                                                                                                                                                                           Phytoplasma
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75.0%;
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S19 (
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copyright.
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Pred. No. 4.1e+03;
0; Mismatches
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H
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produced through a collaboration
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RESULT 15
RS1_ERWCH
ID RS1_E
AC P379E
DT 01-OC
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Best Local
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                                                                                                                                   Query Match
Best Local
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01-OCT-1994
01-OCT-1994
01-NOV-1995
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InterPro; IPR0022222; Ribosomal S19.
PROSITE; PS00323; RIBOSOMAL S19; PI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                     This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Douillie A., Toussaint A., Faelen M.;
Submitted (AUG-1993) to the EMBL/GenBank/DDBJ databases.
-!- FUNCTION: BINDS MRNA; THUS FACILITATING RECOGNITION OF THE
INITIATION POINT. IT IS NEEDED TO TRANSLATE MRNA WITH A SHOR'
SHINE-DALGARNO (SD) PURINE-RICH SEQUENCE (BY SIMILARITY)
-!- SIMILARITY: Belongs to the S1P family of ribosomal proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ribosomal protein;
NON_TER 1
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                                                                                                                                                                                                             Ribosomal protein; Repeat; RNA-binding.
NON_TER 1 1
SEQUENCE 8 AA; 837 MW; 9E18733DC5B3
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                                                                                                                                                                                                                                                                                                                        EMBL; X74750; CAA52769.1;
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                                                                                                                                   Similarity
FKSAK
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(Rel. 30, Last sequence update)
(Rel. 32, Last annotation updat
al protein S1 (Fragment).
                                                                                                         Conservative
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                                                                                                                                      40.0%;
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Pred. No.
                                                                                                                                      Score 15; DB 1;
Pred. No. 1.4e+05;
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RESULT 16
FAR9_ASCSU
ID FAR9_ASCSU

STANDARD;

PRT;

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RESULT 18
CA42_LITCI
ID CA42_LITCI
AC P82092;
DT 16-OCT-2001
DT 16-OCT-2001
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TKU2_UREUI
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Best Local S
Matches 2
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Matches 3
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01-NOV-1995 (Re]
01-NOV-1995 (Re]
01-FEB-1996 (Re]
FMRFamide-like;
                                                                                                                                                                                                                                                                                              MOD RES
SEQUENCE
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SEQUENCE, AND SYNTHESIS.
SEQUENCE, AND 
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P40752;
01-FEB-1995 (Rel. 3
01-FEB-1995 (Rel. 3
10-OCT-2003 (Rel. 4
                                                                                                                                                                                                                                                                                                                              Tachykinin; Neuropeptide; Amidation
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Eukaryota; Metazoa; Echiura;
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Ascaris suum (Pig roundworm) (Ascaris lumbricoides).
Eukaryota; Metazoa; Nematoda; Chromadorea; Ascaridida; Ascaridoidea;
Ascarididae; Ascaris.
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MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ascaris suum.";
Peptides 16:491-500(1995)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=6253;
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                                                                                                                                                                                                                                                                                                                                                                                      chem. Biophys. Res. Commun. 19 FUNCTION: Contractile action muscle of the animal.
                                                                                                                                                                                                                                                                                                                                                   SUBCELLULAR LOCATION: Secreted.
SIMILARITY: SOME SIMILARITY TO TACHYKININS
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3; Conserv
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9 AA; 1012 MW;
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984 MW;
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Last annotation updat
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sequence
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3F58DD79C9C87698 CRC64;
                                                                                                                                                                                                                       Score 15; DB Pred. No. 4.6e
1; Mismatches
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524F073774176877 CRC64;
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Pred. No.
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Best Local
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P41518;
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Wabnitz P.A., Bowie J.H., Tyler M.J.;
"Caerulein-like peptides from the skin glands of the montains tree frog Litoria citropa. Part 1. Sequence using electrospray mass spectrometry.";
Rapid Commun. Mass Spectrom. 13:2498-2502(1999).
-!- FUNCTION: Hypotensive neuropeptide (Probable).
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Skin dorsal glands.
-!- PTM: Isoform 4.2Y4 differs from isoform 4.2 in no
                                                                                                                                                                                                                                            Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota, Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Occalliphoridae; Calliphora.
                                                                                                                                                                                                                                                                                                          01-NOV-1995 (Rel.
01-NOV-1995 (Rel.
10-OCT-2003 (Rel.
                                                                                                                                                                                                                                                                                                                                                                         CALVO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR001651; Gastrin; FALSE_NEG.
PROSITE; PS00259; GASTRIN; FALSE_NEG.
Amphibian defense peptide; Hypotensive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-OCT-2003 (Rel. 42, Last annotation update)
Caerulein 4.2/4.2Y4.
Litoria citropa (Australian blue mountains tree frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleos Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae; Pelodryadinae; Litoria.
                                                                                 -!- FUNCTION: Myoactive peptide

-!- SUBCELLULAR LOCATION: Secreted.

-!- SIMILARITY: SOME SIMILARITY TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOD_RES
MOD_RES
                                                 SEQÜENCE
                                                              Tachykinin; Neuropeptide; Amidation.
MOD RES 11 11 AMIDATI
                                                                                                                       Peptides 15:761-768(1994)
                                                                                                                                                "Callitachykinin I and II,
the blowfly, Calliphora vo
                                                                                                                                                                         Naessel
                                                                                                                                                                                   MEDLINE=95075727; PubMed=7984492;
Lundquist C.T., Clottens F.L., Holman
                                                                                                                                                                                                                                                                                    Calliphora vomitoria (Blue blowfly).
                                                                                                                                                                                                                                                                                                  Callitachykinin
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                                                                                                                                      cachykinins."
                                                                                                                                                                                                             SEQUENCE,
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    -!- MASS SPECTROMETRY: MW=1404; METHOD=Electrospray
    -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family

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Similarity
3; Conserv
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32, Last sequence update)
42, Last annotation updat
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           29.4%;
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mitoria, that
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             Score 15; DB 1;
Pred. No. 5e+03;
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AMIDATION.
10DAB894F5B861BB
                                                 15D7E3F9C9CDD444 CRC64;
                                                             AMIDATION
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hat have re
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                        Length 11;
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